

FIG. 1 is a perspective view of a mechanical assembly 30, showing a housing 32 with a top surface 34 and a bottom surface 36. The housing 32 includes a front face 38 and a rear face 40. A central opening 42 is provided in the top surface 34. A rectangular feature 46 is located on the top surface 34, adjacent to the central opening 42. A circular feature 48 is also present on the top surface 34. A side face 50 of the housing 32 includes a circular feature 52 and a rectangular feature 54. A side face 56 of the housing 32 includes a circular feature 58. A side face 60 of the housing 32 includes a circular feature 62. A side face 64 of the housing 32 includes a circular feature 66. A side face 70 of the housing 32 includes a circular feature 76. A side face 72 of the housing 32 includes a circular feature 74. A side face 78 of the housing 32 includes a circular feature 80. A side face 82 of the housing 32 includes a circular feature 84. A side face 86 of the housing 32 includes a circular feature 88. A side face 90 of the housing 32 includes a circular feature 92. A side face 94 of the housing 32 includes a circular feature 96. A side face 98 of the housing 32 includes a circular feature 100.

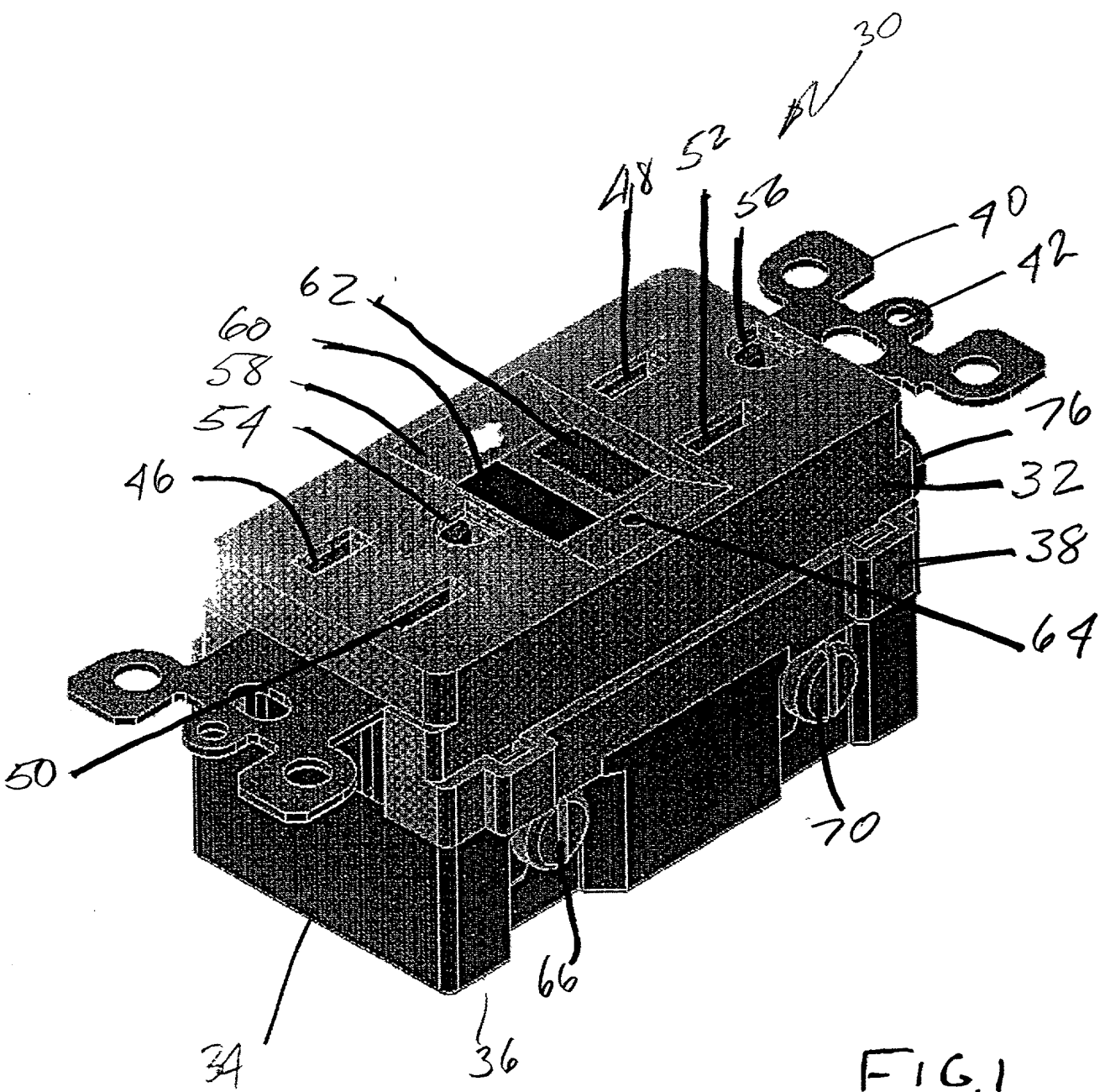


FIG. 3 is a perspective view of the device in accordance with the present invention.

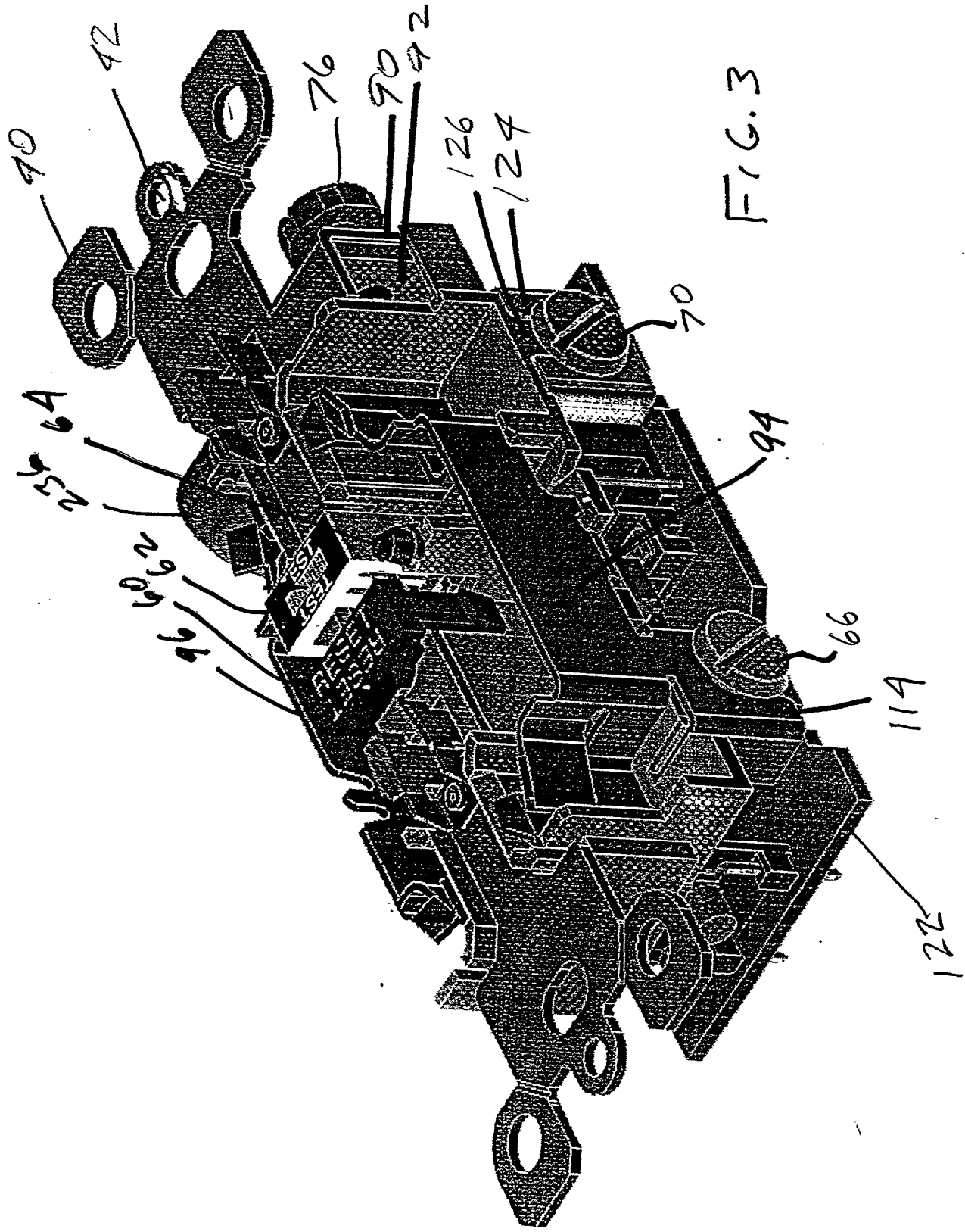


FIG. 3

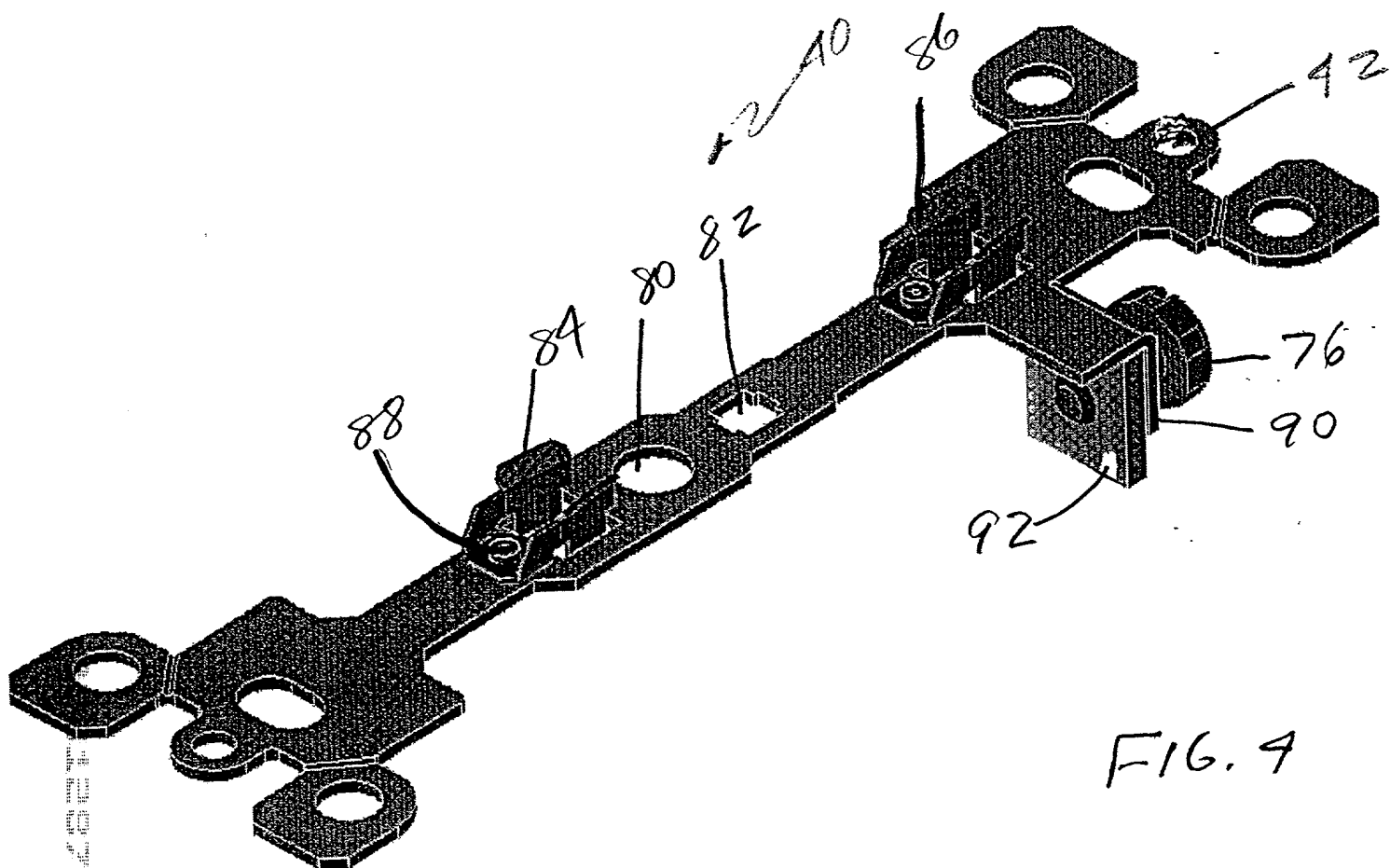


FIG. 4

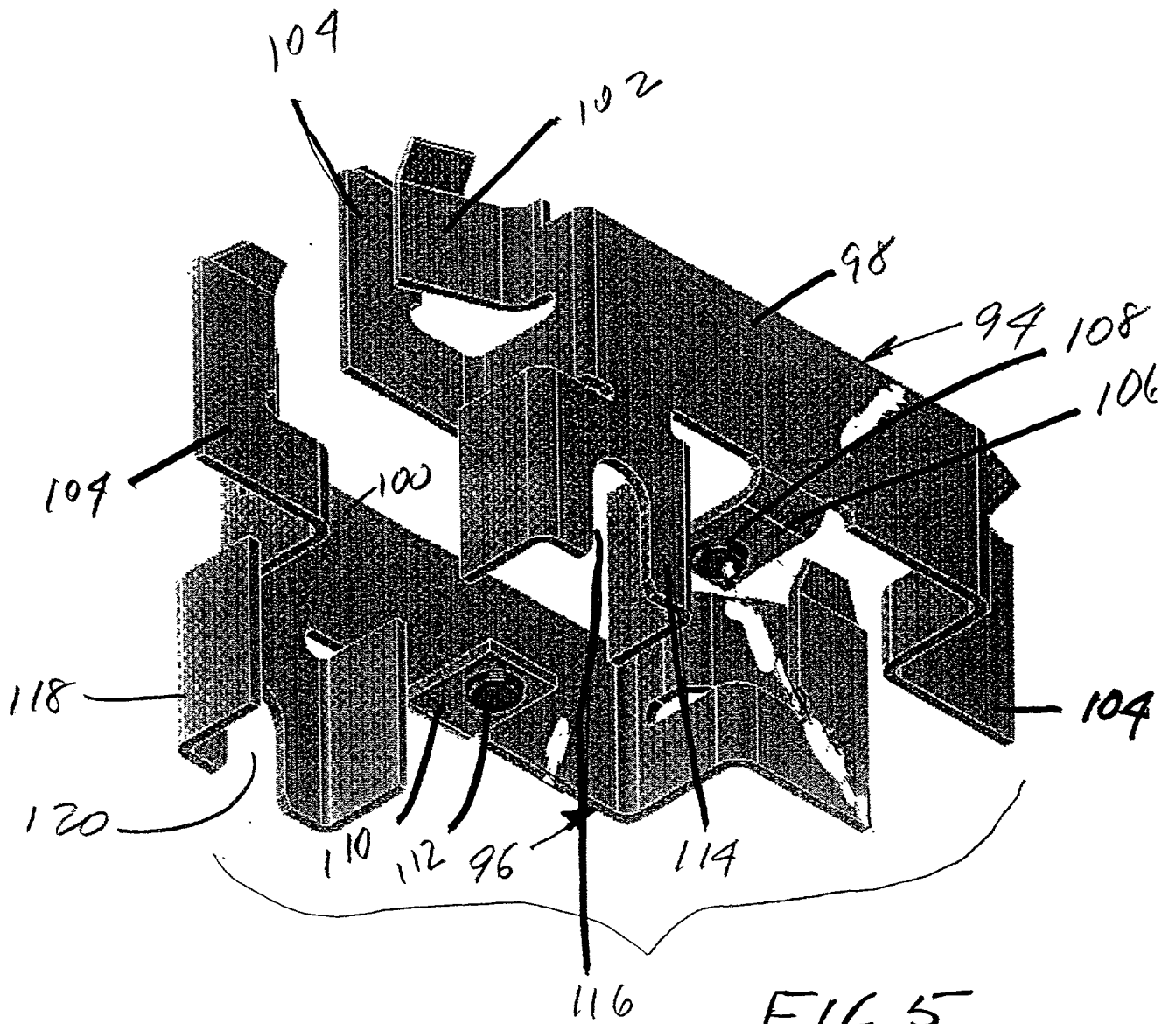


FIG. 5

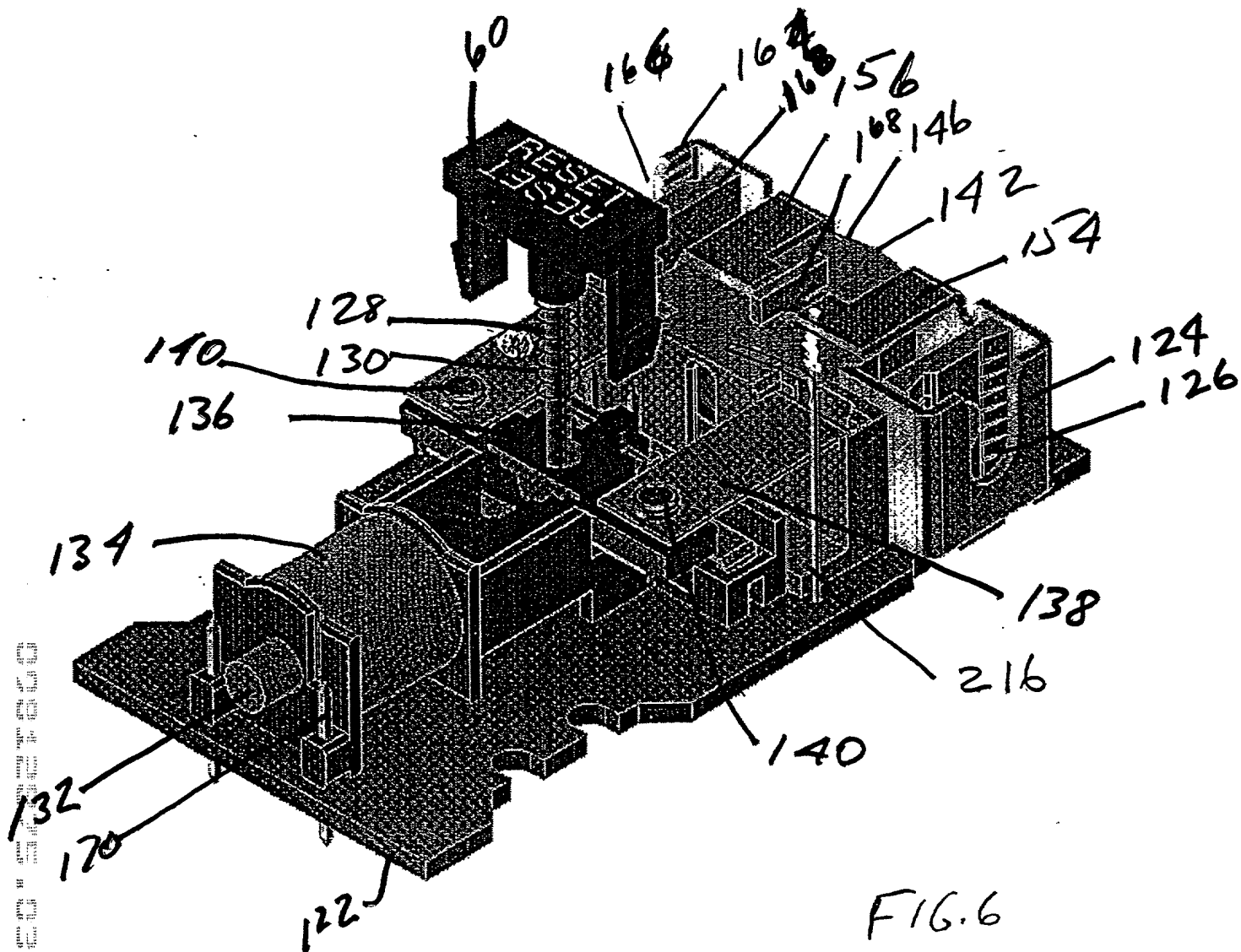


FIG. 6

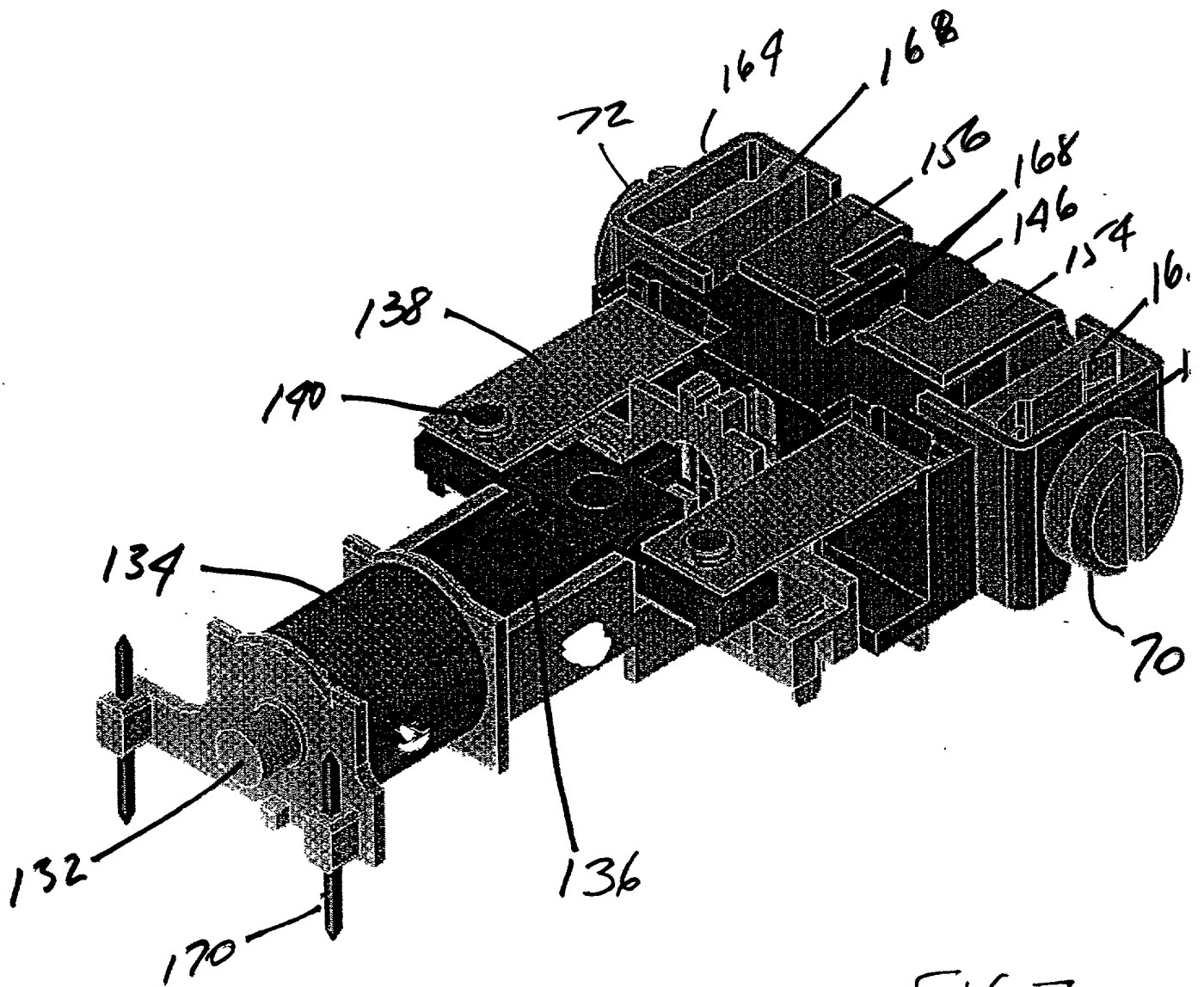
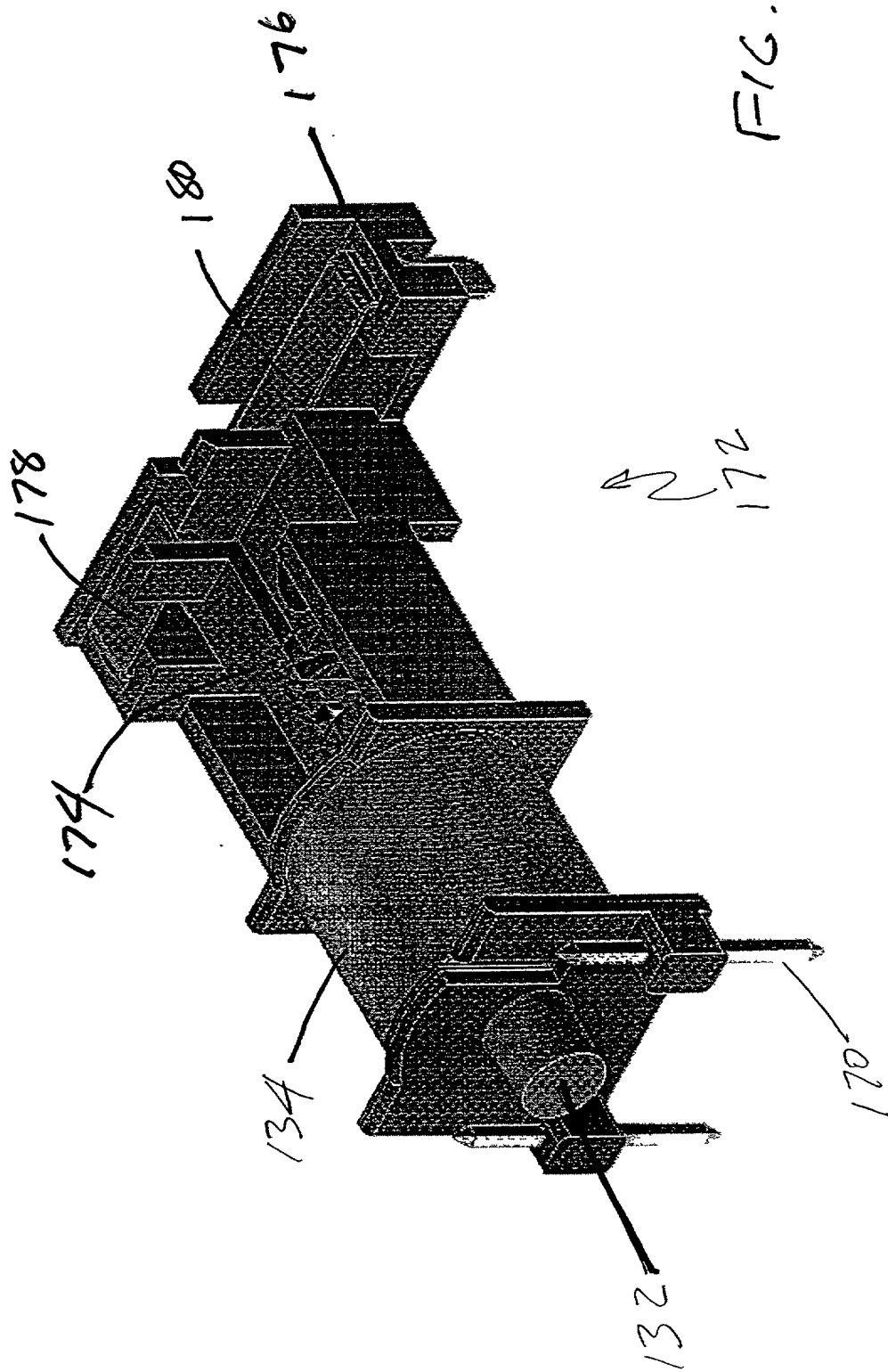


FIG. 7

FIG. 7 is a perspective view of the assembly shown in FIG. 6, with the cap 70 removed, showing the internal components and the mounting structure.



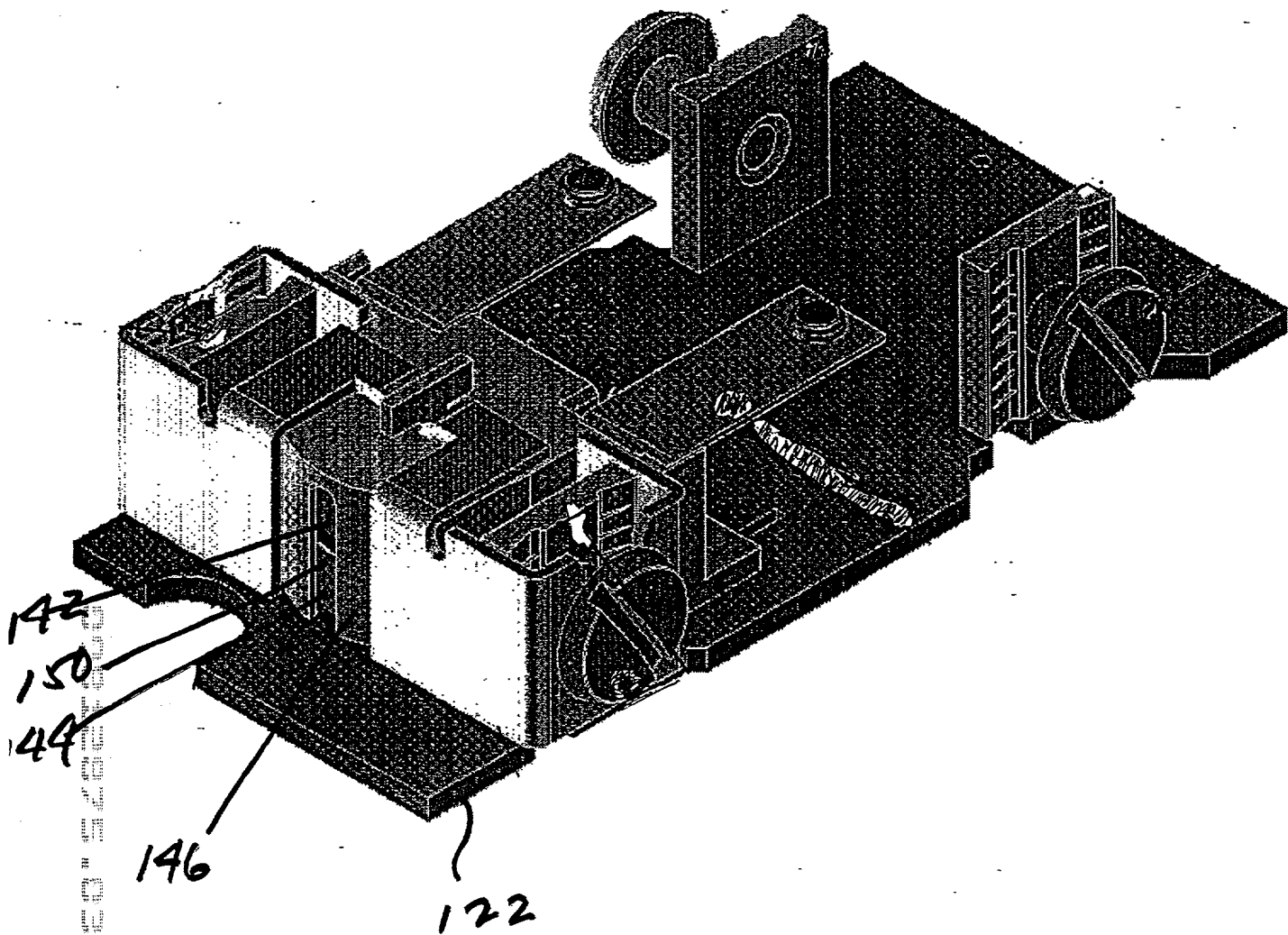


FIG. 11

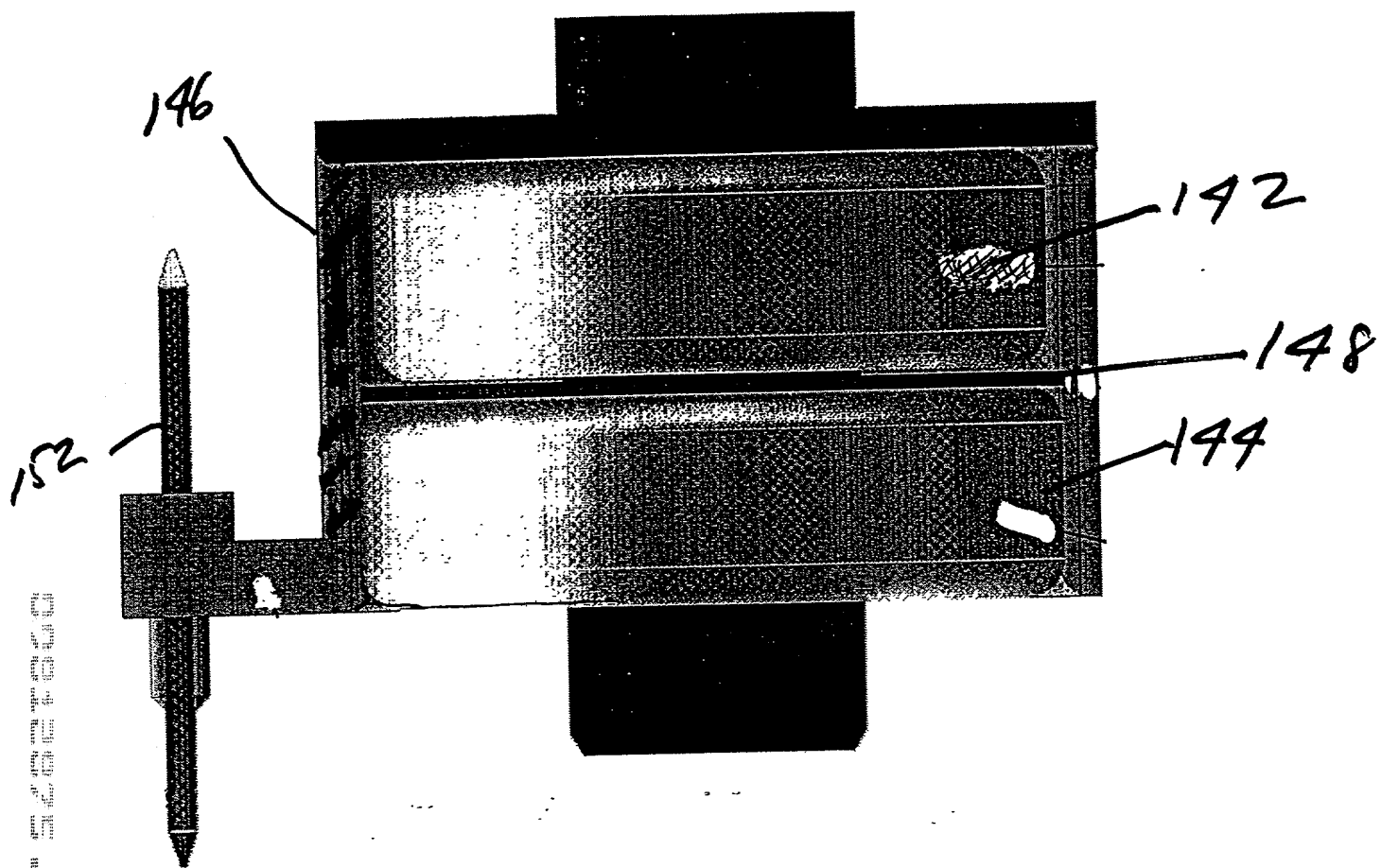


FIG. 12

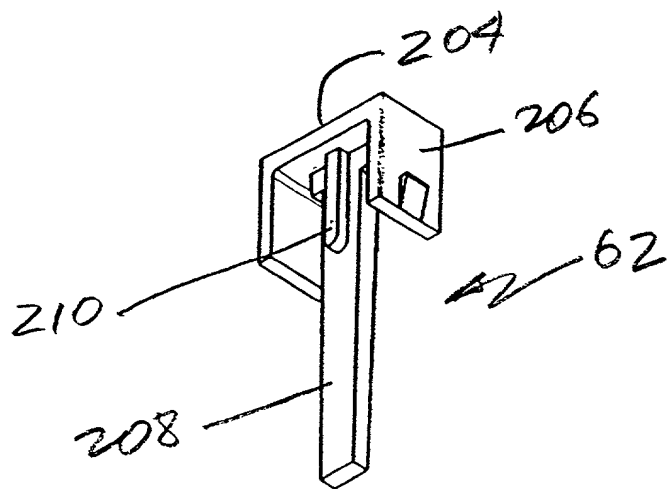


FIG. 13

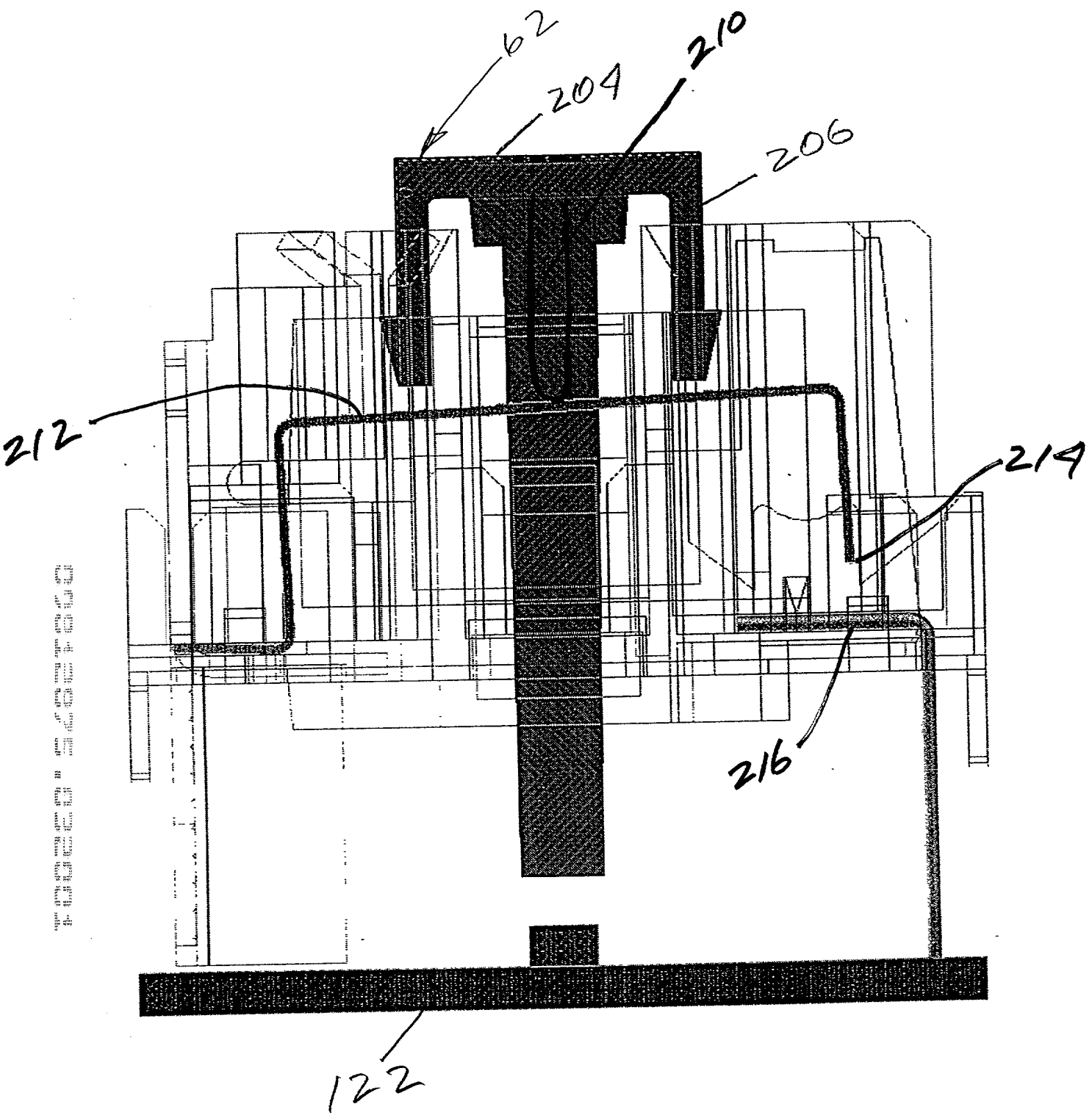


FIG. 14

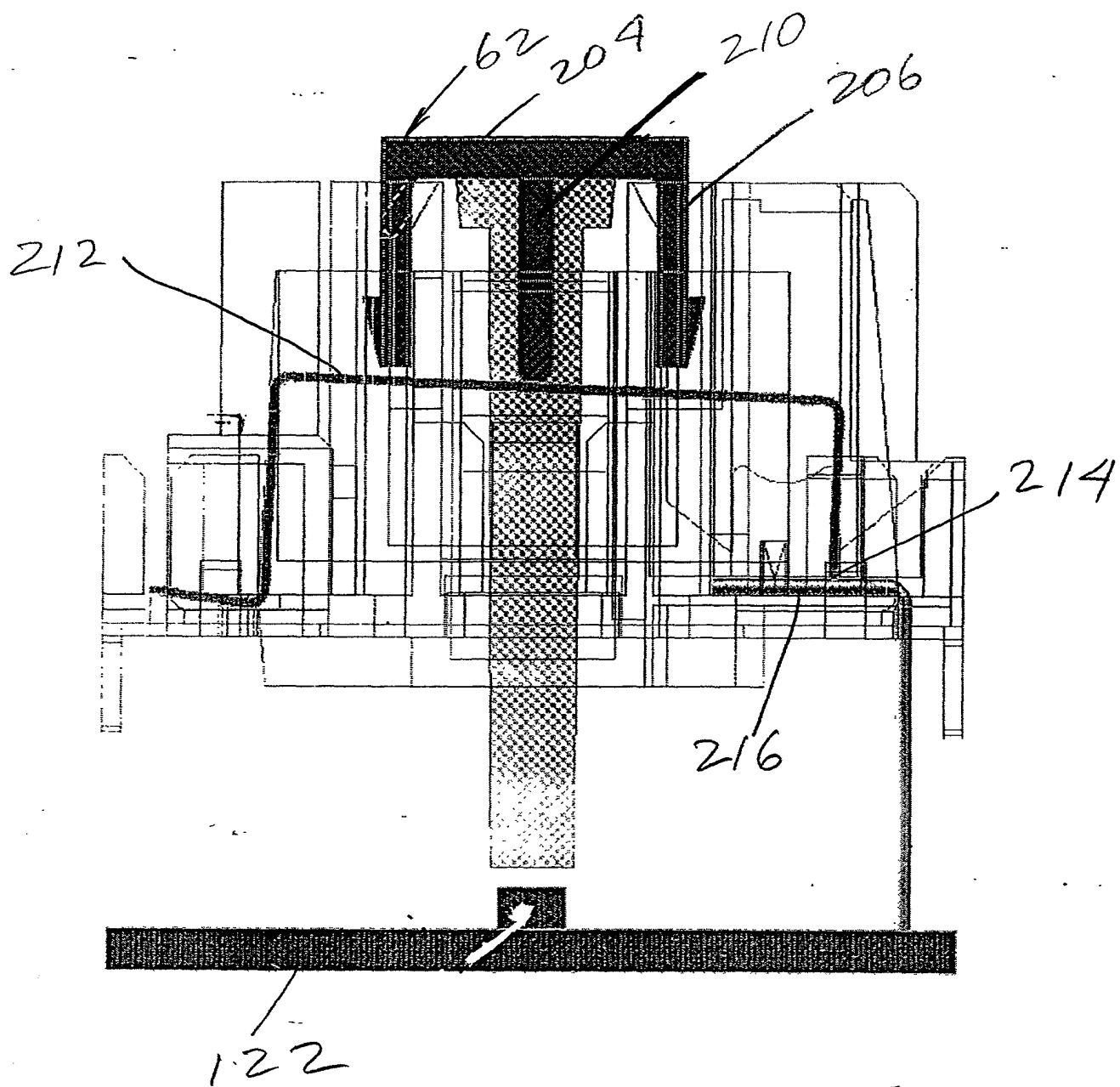


FIG. 15

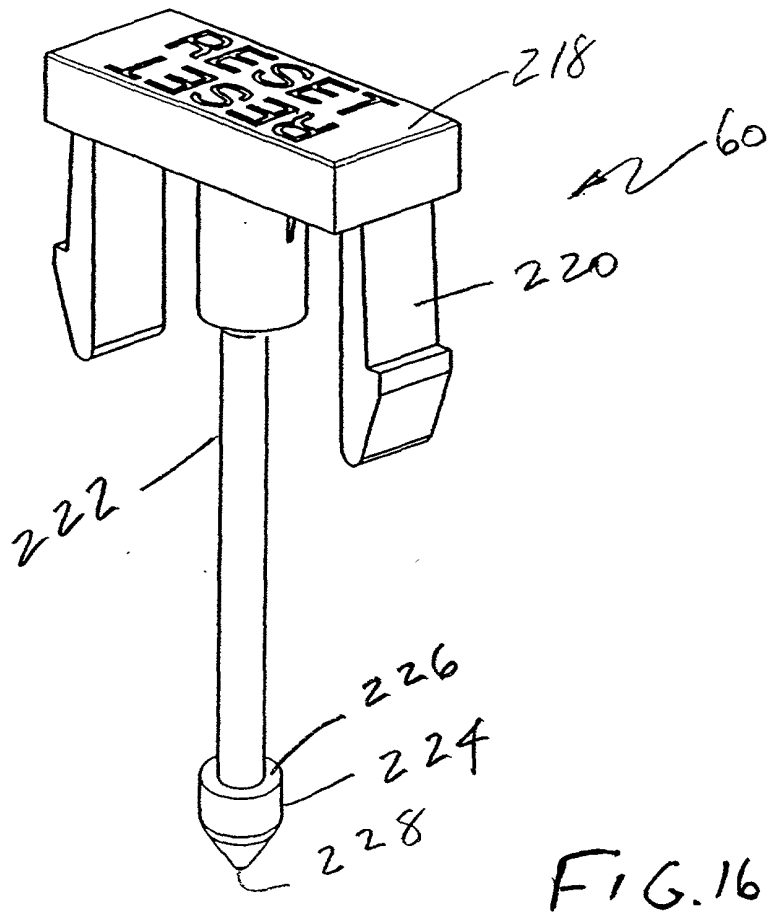


FIG. 16

MODE	LED INDICATOR			PIEZO BEEPER
	Green	Red	Amber	
Supervisory	Slow	NA	NA	Off
25 Days	Fast	NA	NA	Off
30 Days	NA	NA	Fast	Off
Trip-External Fault	NA	NA	Fast	On
Fault in GFCI	NA	Fast	NA	On
Power On Reset	NA	NA	Fast	Off

FIG. 21

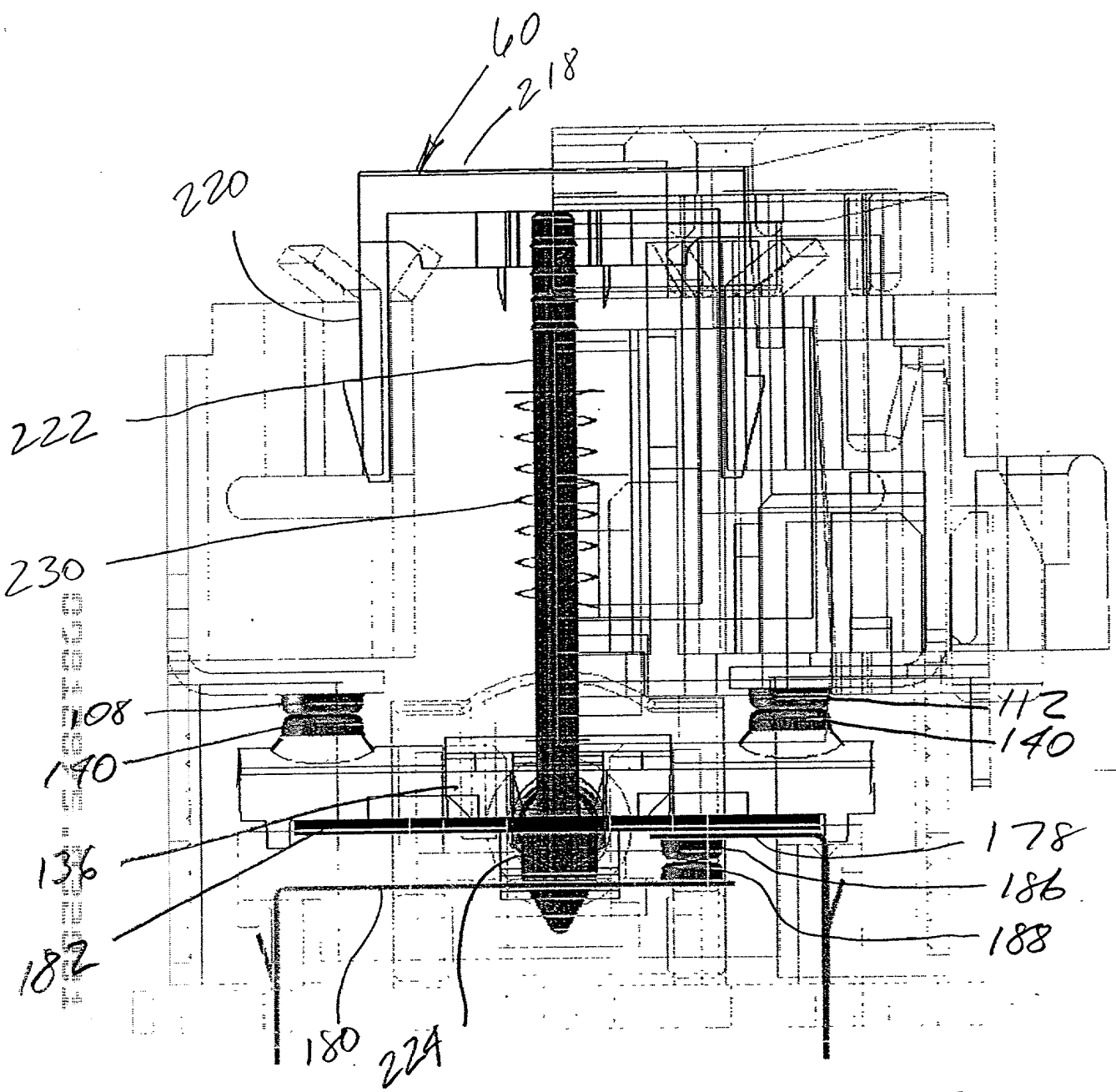


FIG. 17

FIG. 18 is a perspective view of the device in accordance with the present invention, showing the device in a closed position.

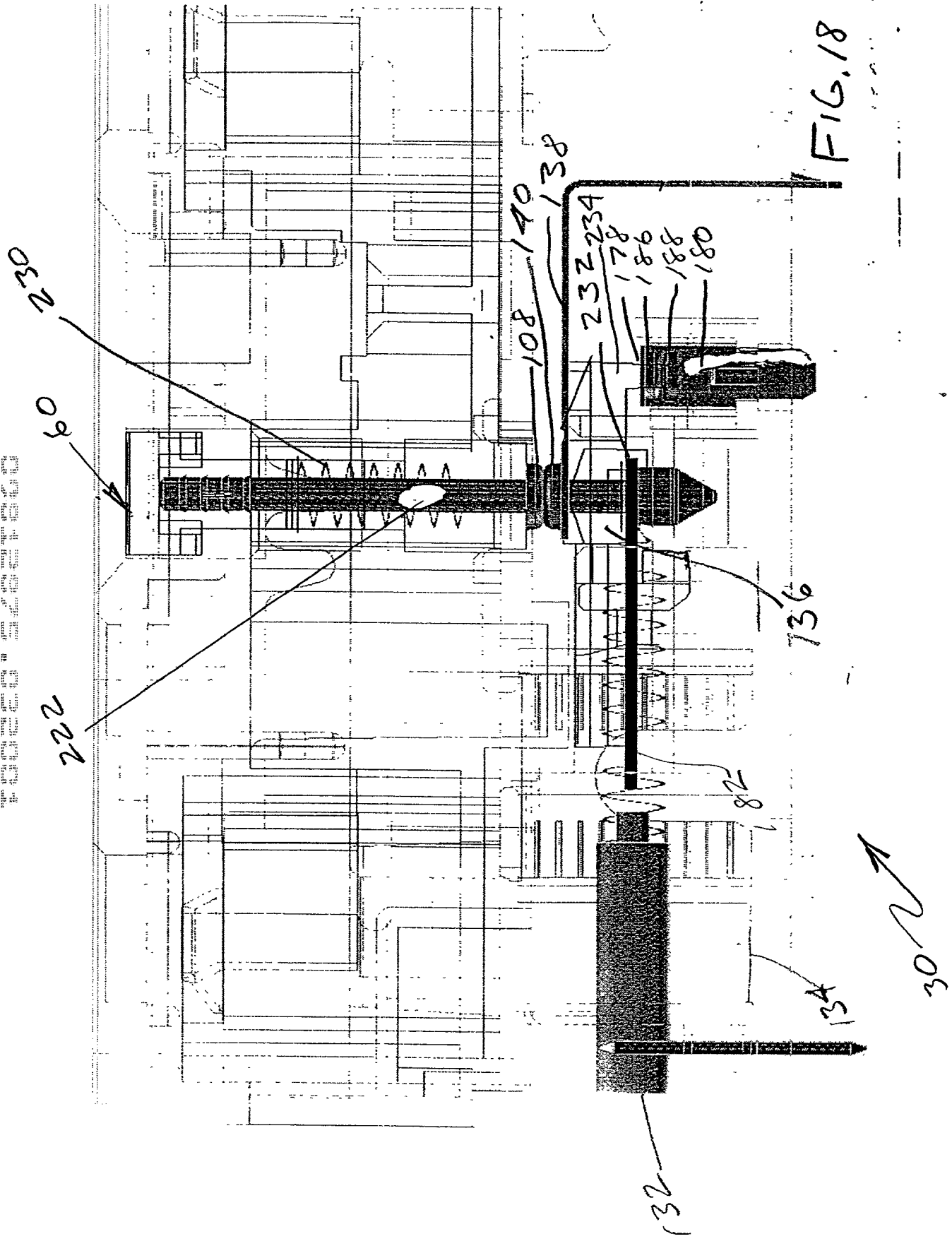


FIG. 18

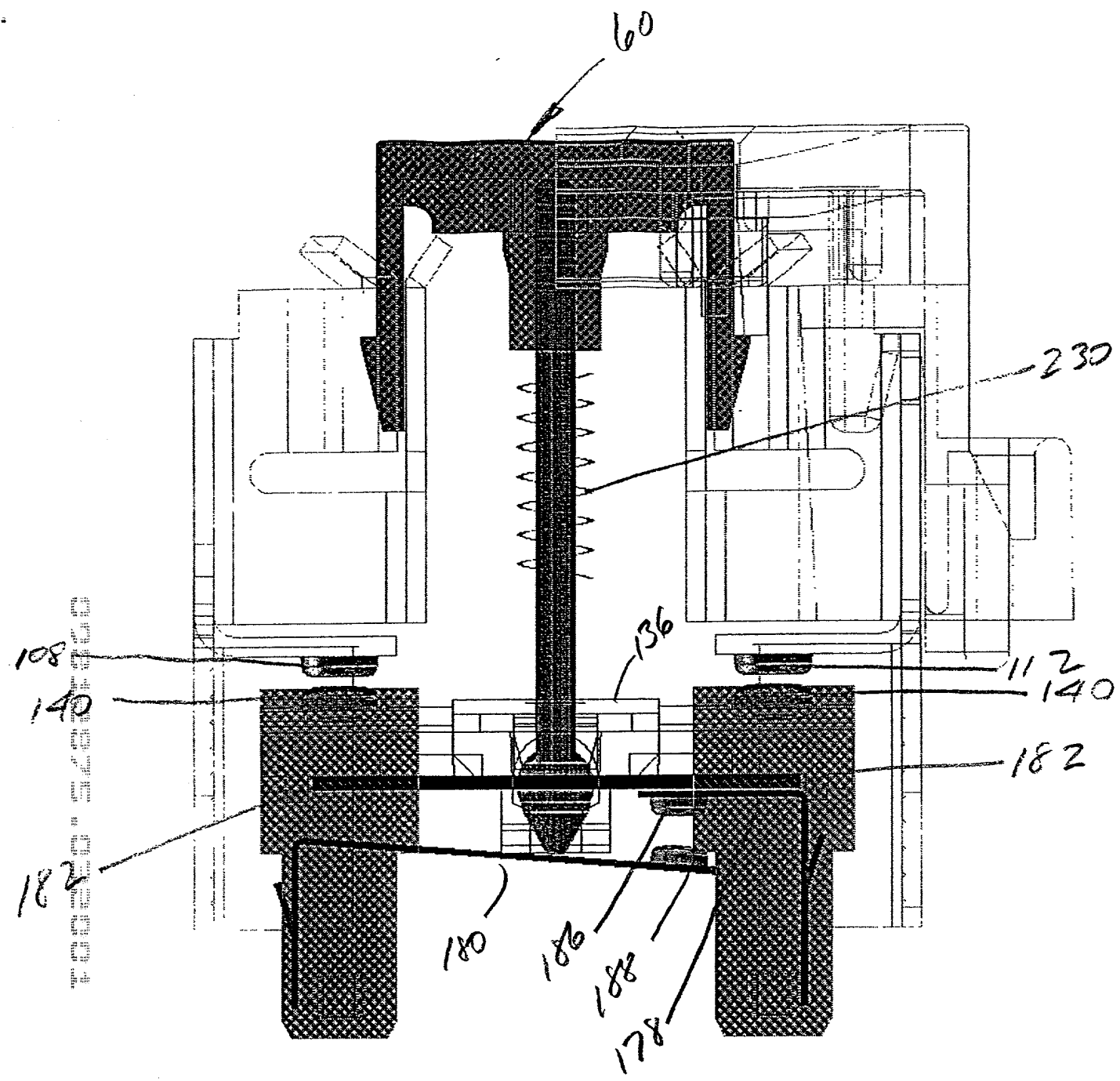


FIG. 20 is a perspective view of the device in accordance with the present invention, showing the device in a closed position.

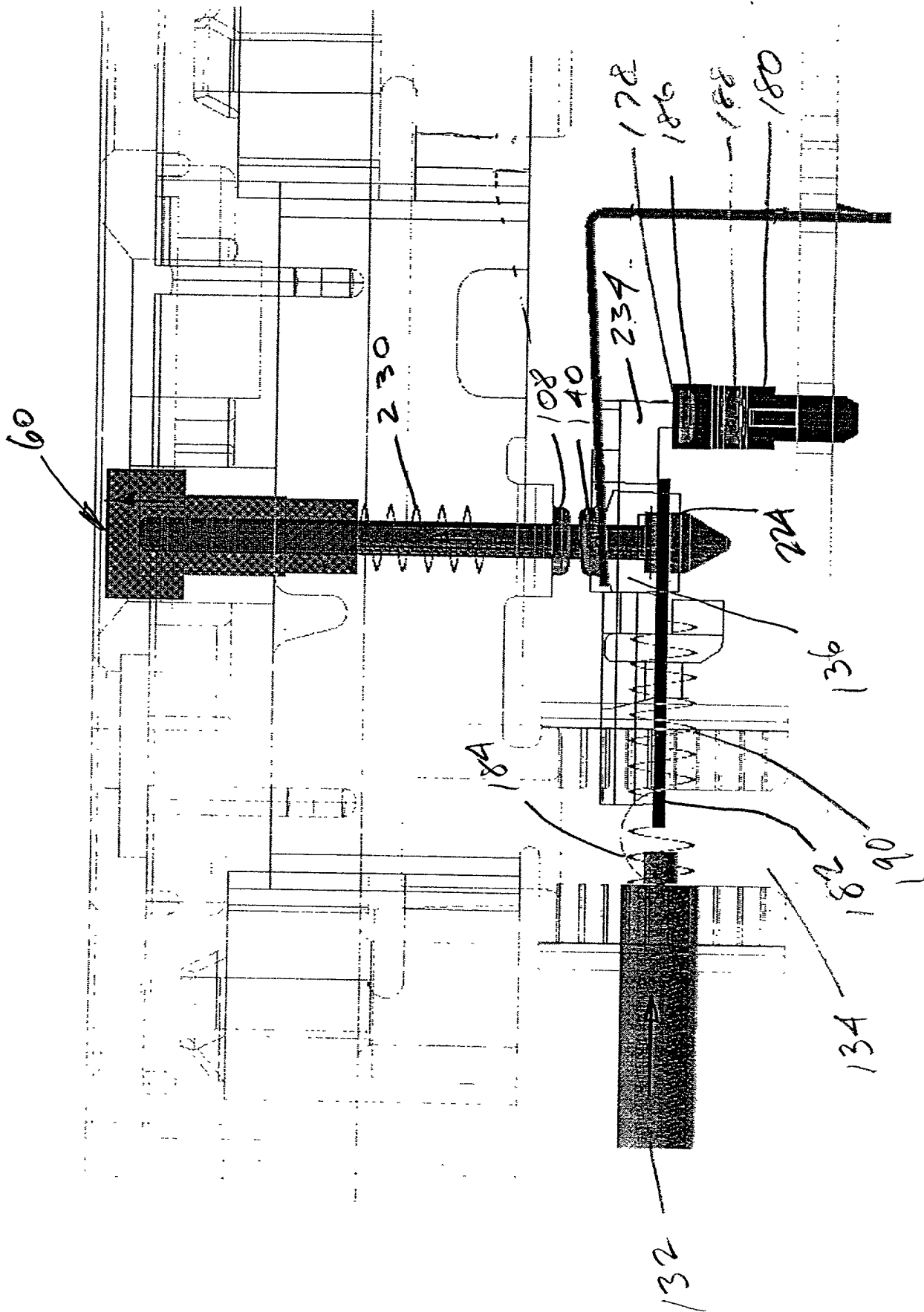
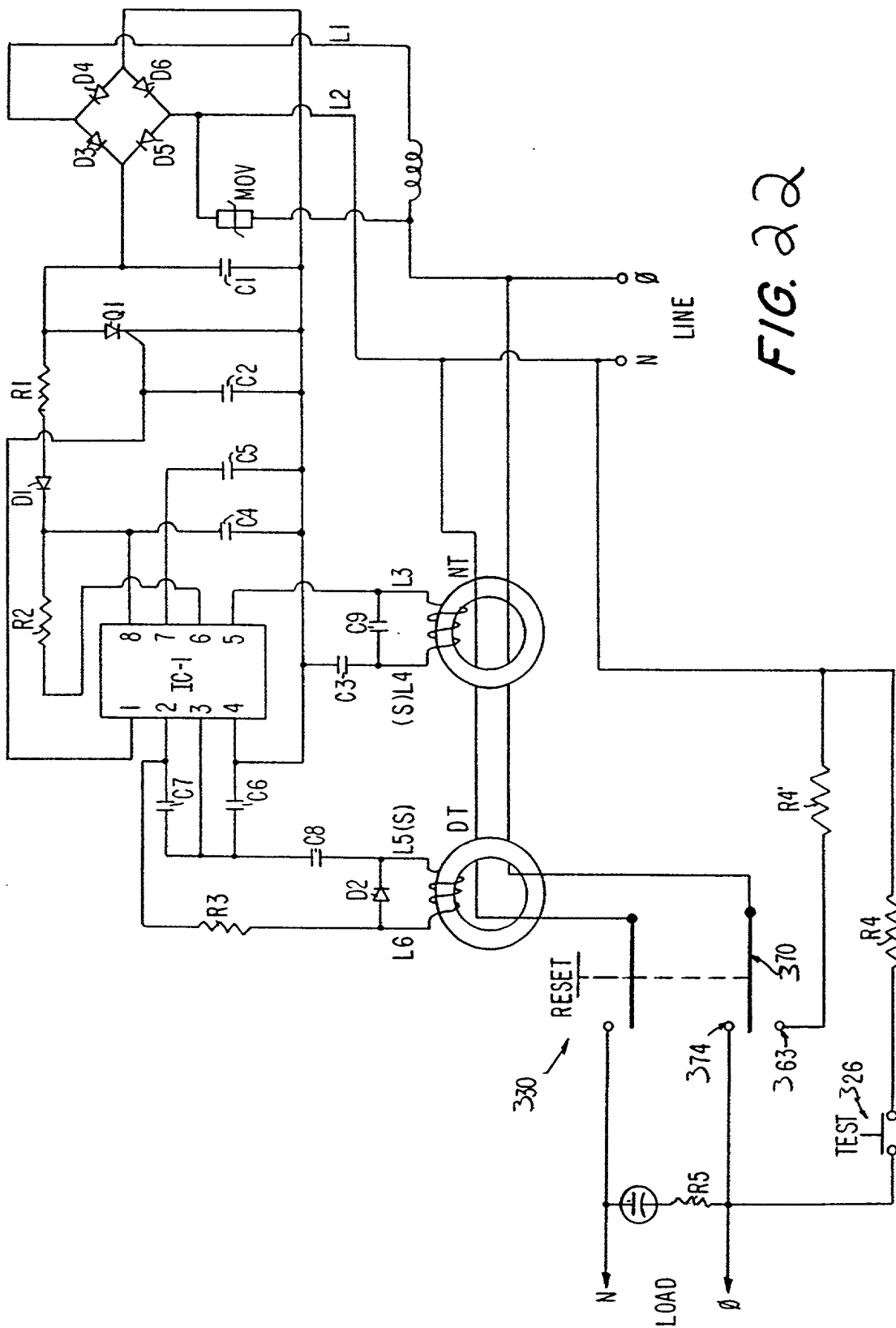


FIG. 20



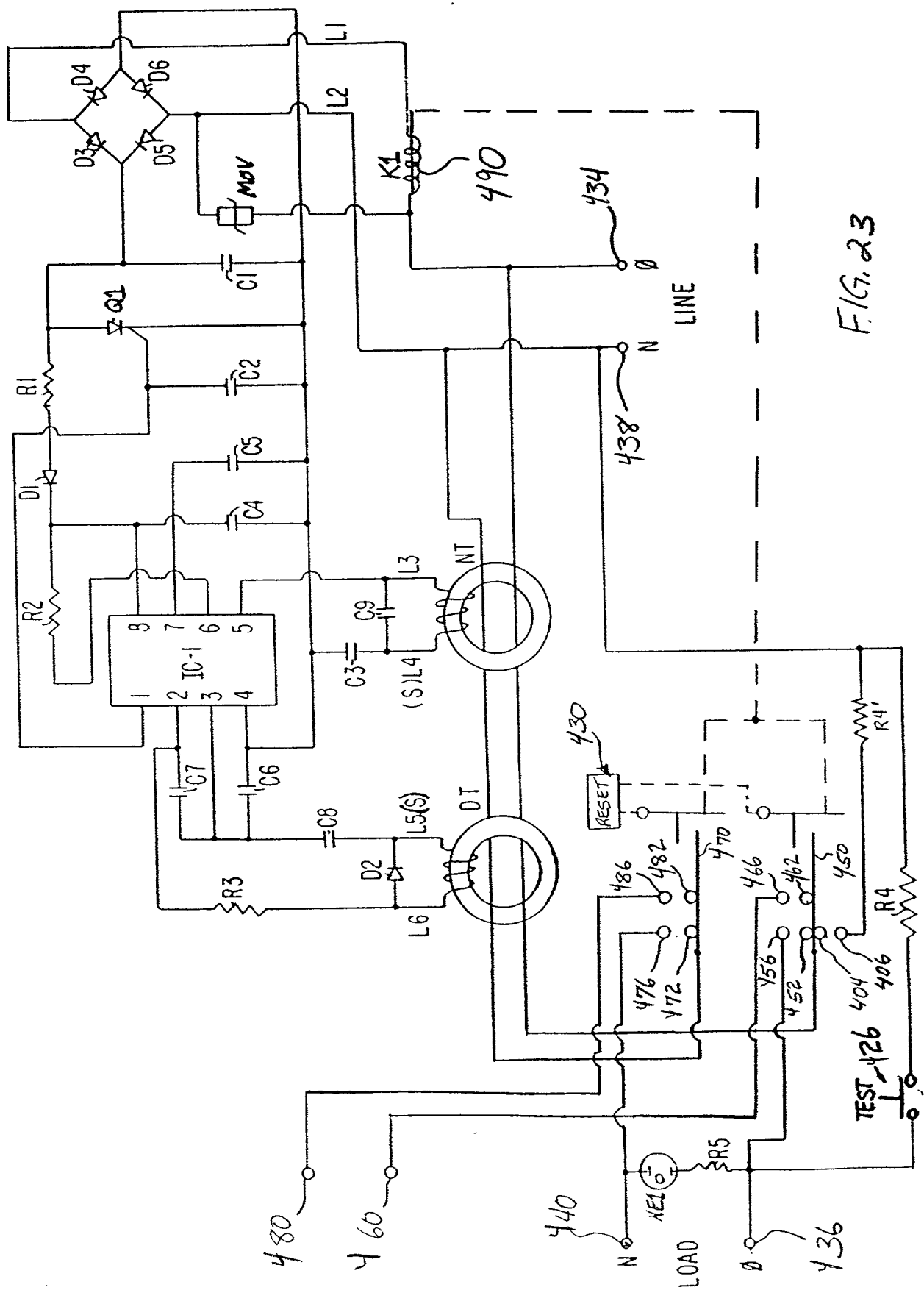


FIG. 24 is a schematic diagram of a power supply circuit. The circuit includes a transformer 430 with a primary winding connected to a line 434 and a secondary winding connected to a load 436. The secondary winding is also connected to a rectifier bridge 438. The rectifier bridge 438 includes four diodes 439, 440, 441, and 442. The output of the rectifier bridge 438 is connected to a filter capacitor 443. The filter capacitor 443 is connected to a load 436. The load 436 is connected to a ground 437. The circuit also includes a transformer 430 with a primary winding connected to a line 434 and a secondary winding connected to a load 436. The secondary winding is also connected to a rectifier bridge 438. The rectifier bridge 438 includes four diodes 439, 440, 441, and 442. The output of the rectifier bridge 438 is connected to a filter capacitor 443. The filter capacitor 443 is connected to a load 436. The load 436 is connected to a ground 437.

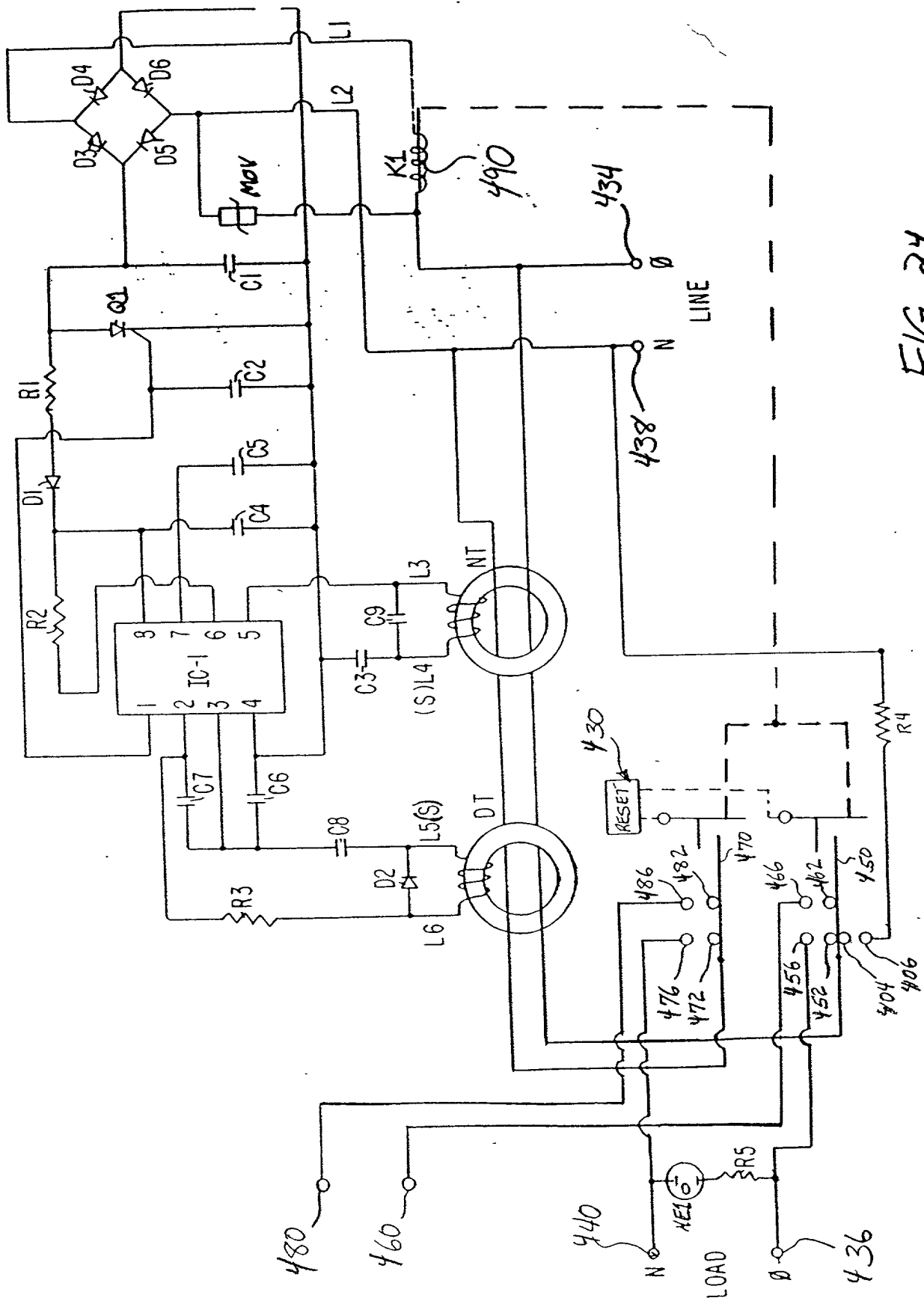
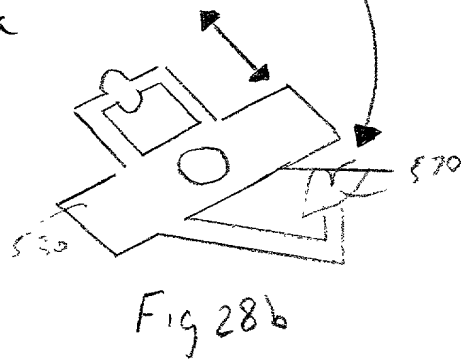
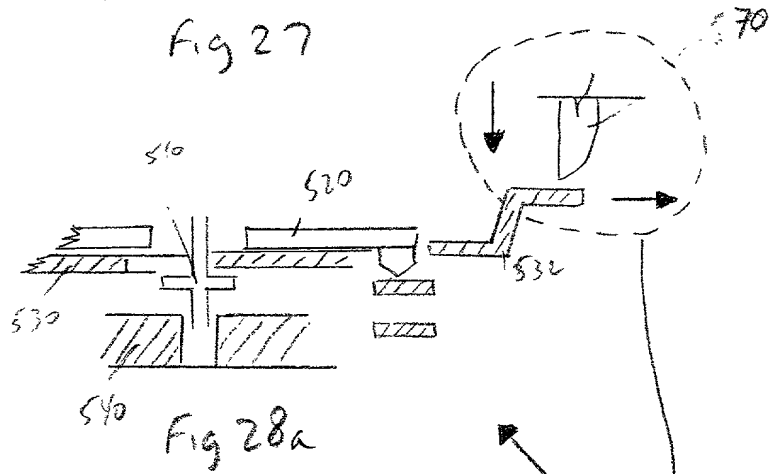
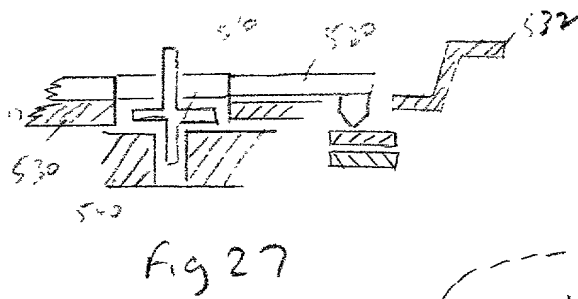
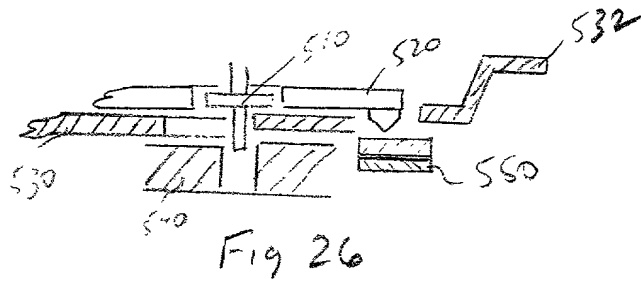
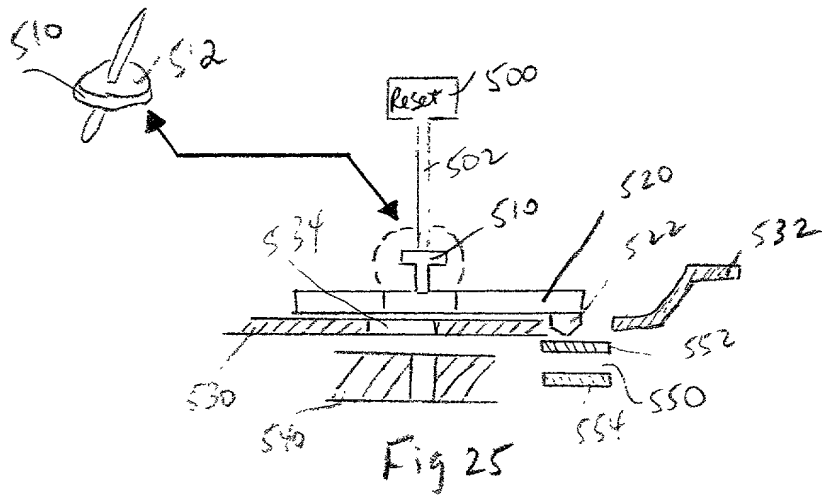
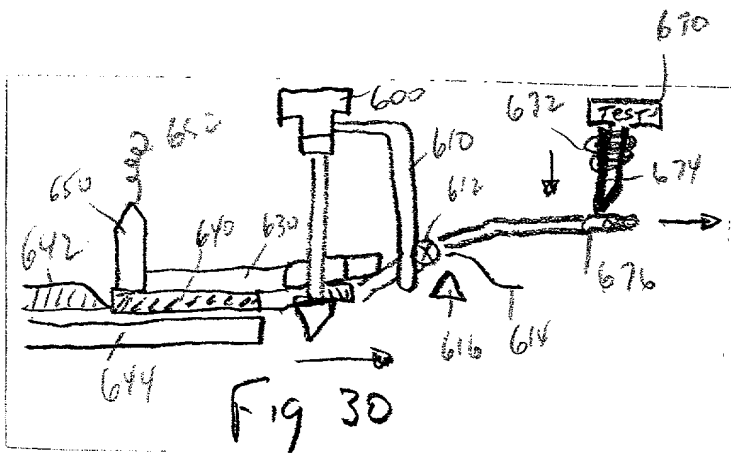
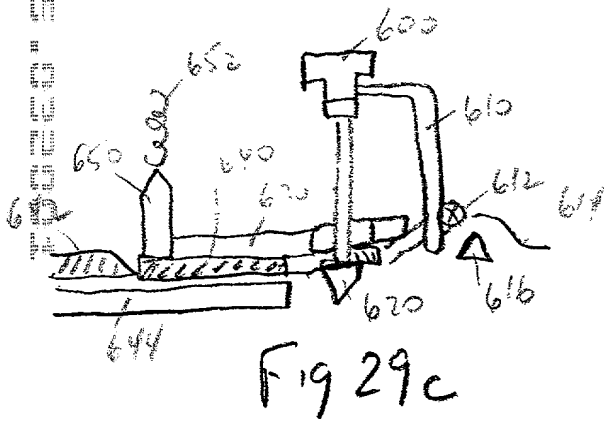
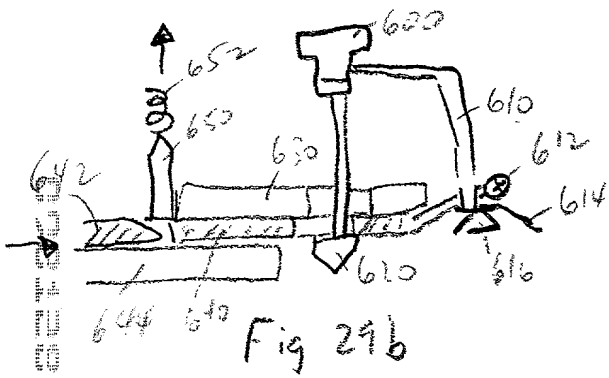
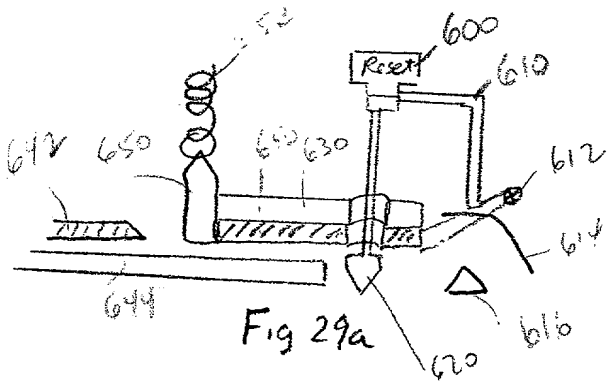


FIG. 24





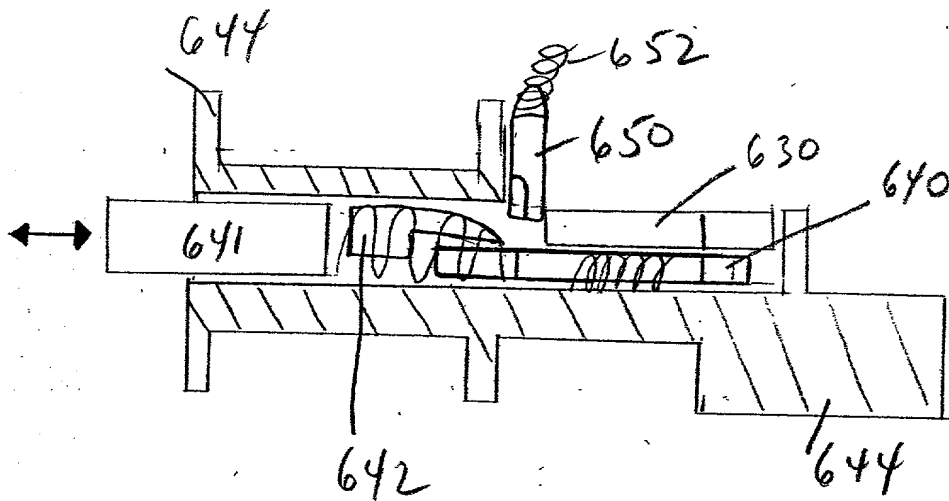


Fig 31a

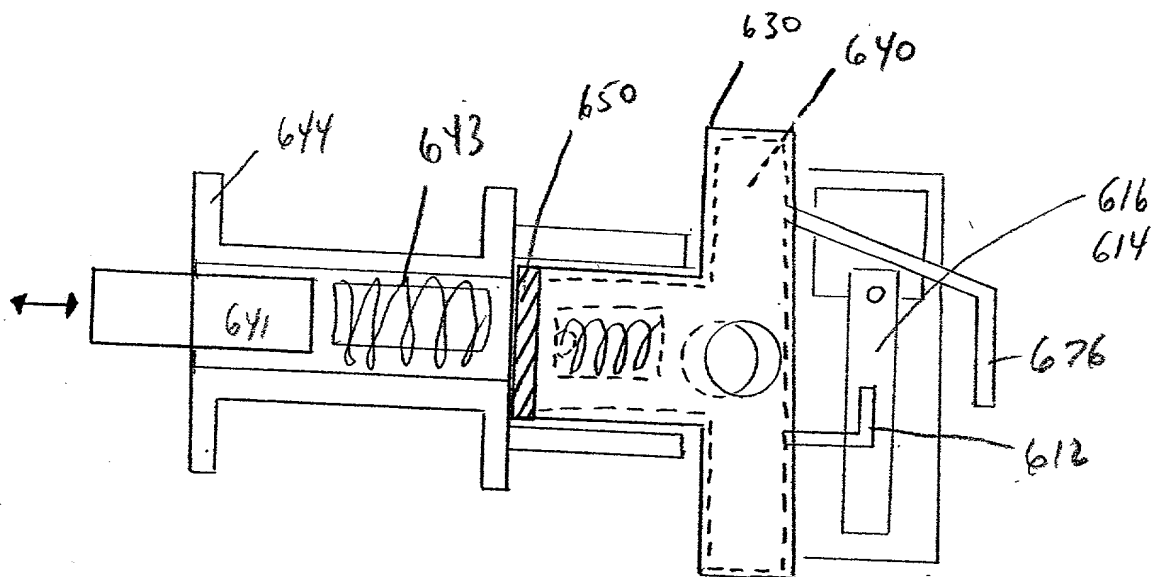


Fig 31b

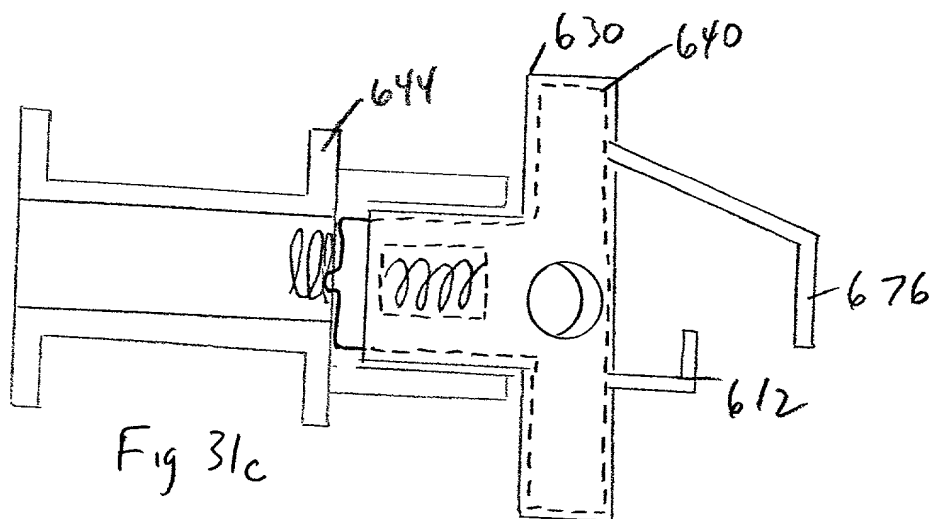


Fig 31c

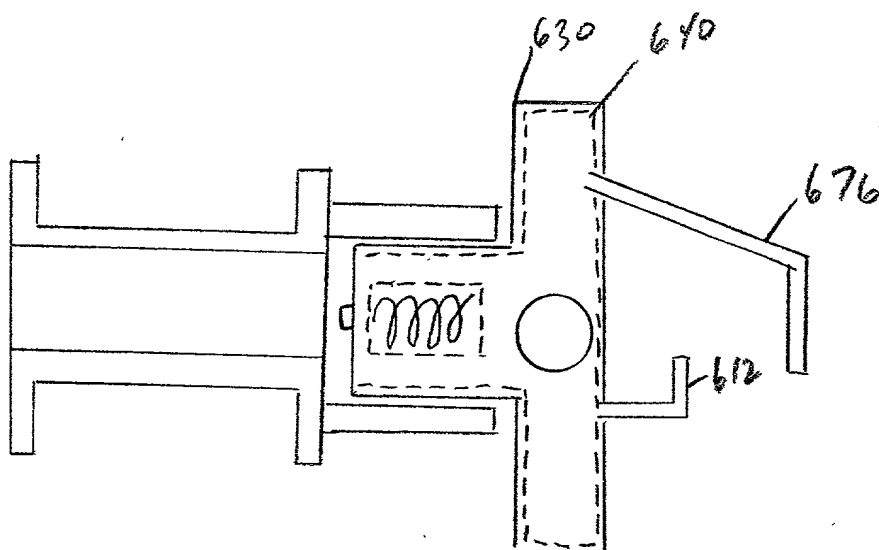


Fig 31d

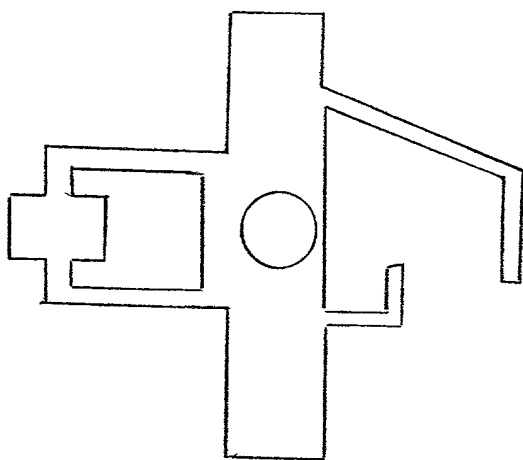


Fig 31e

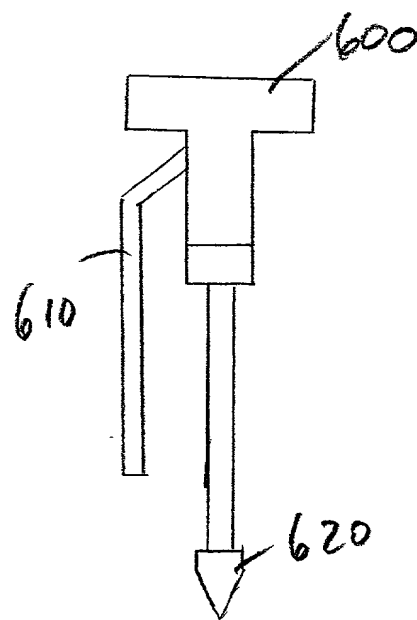


Fig 31f

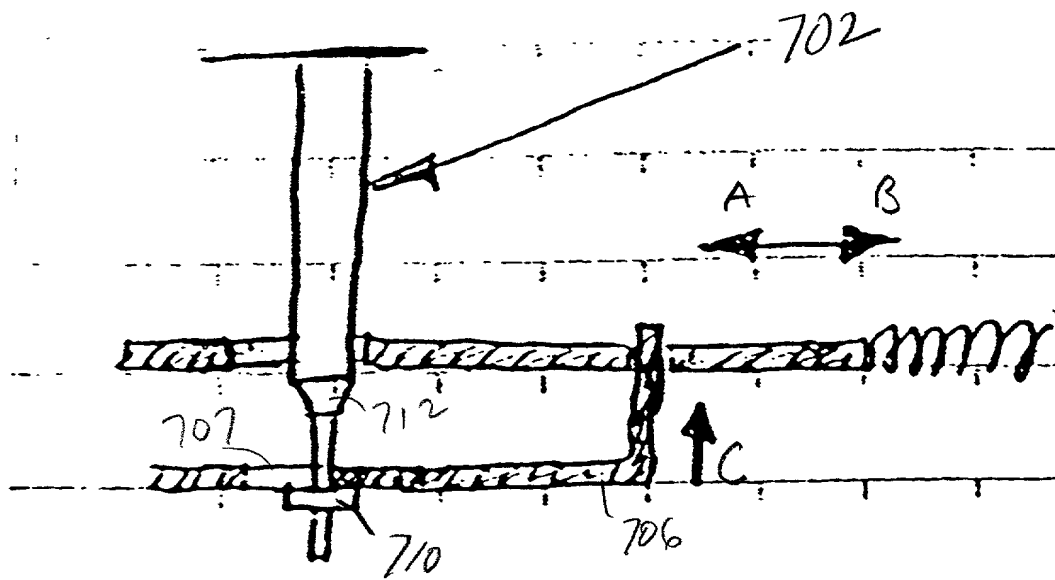


Fig 32a

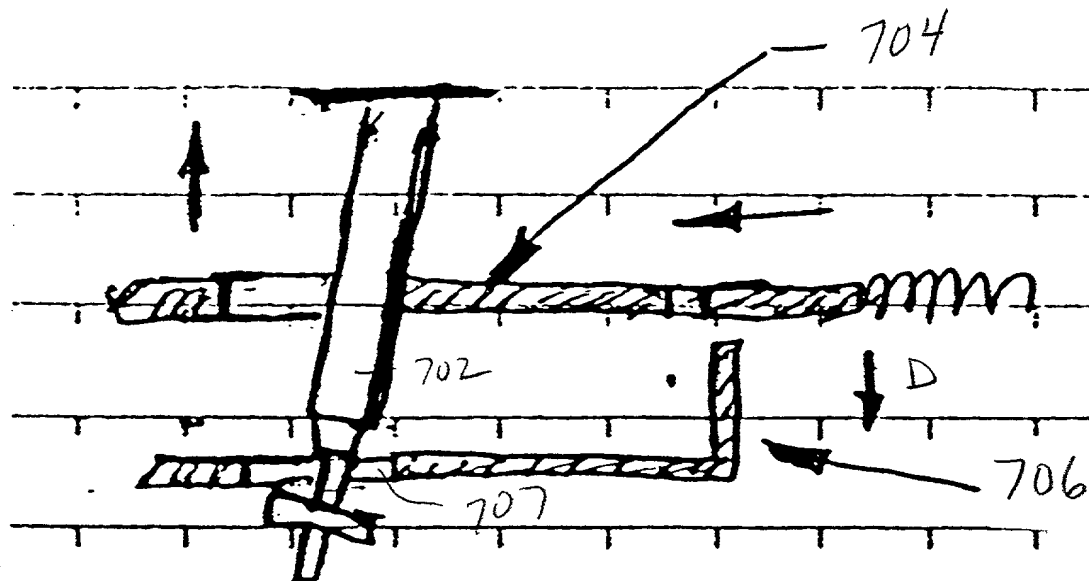
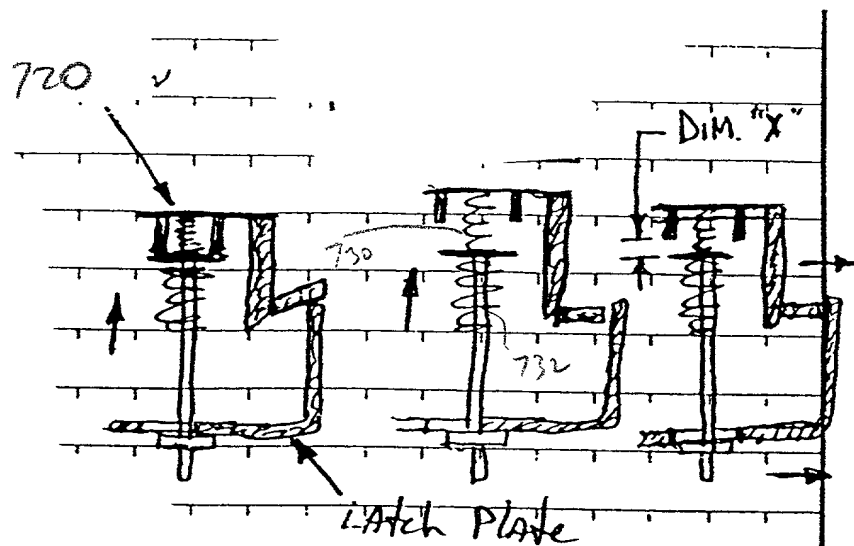
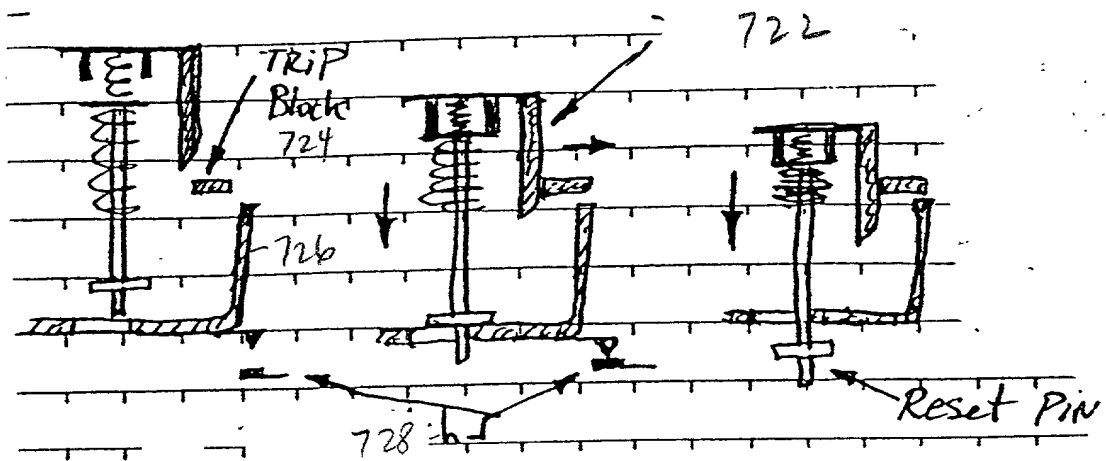


Fig 32b



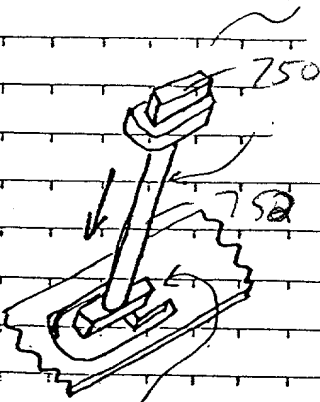


FIG. 34a

LOCK
OUT

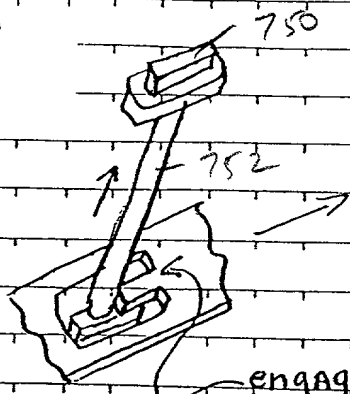


FIG. 34b

engagement

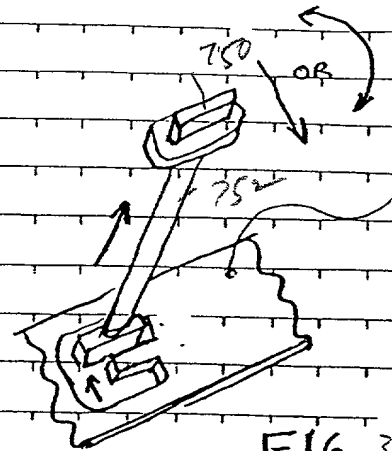


FIG. 34c

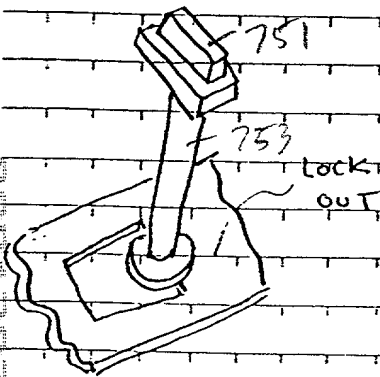


FIG. 34d

LOCK
OUT

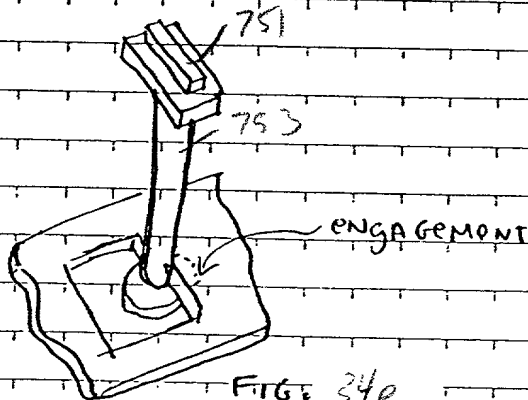


FIG. 34e

engagement

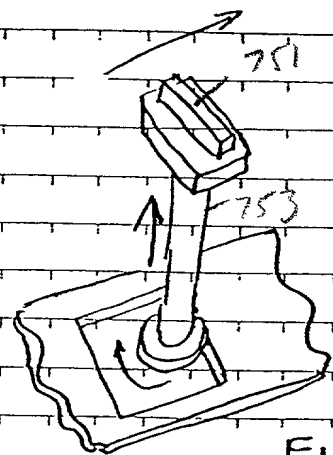
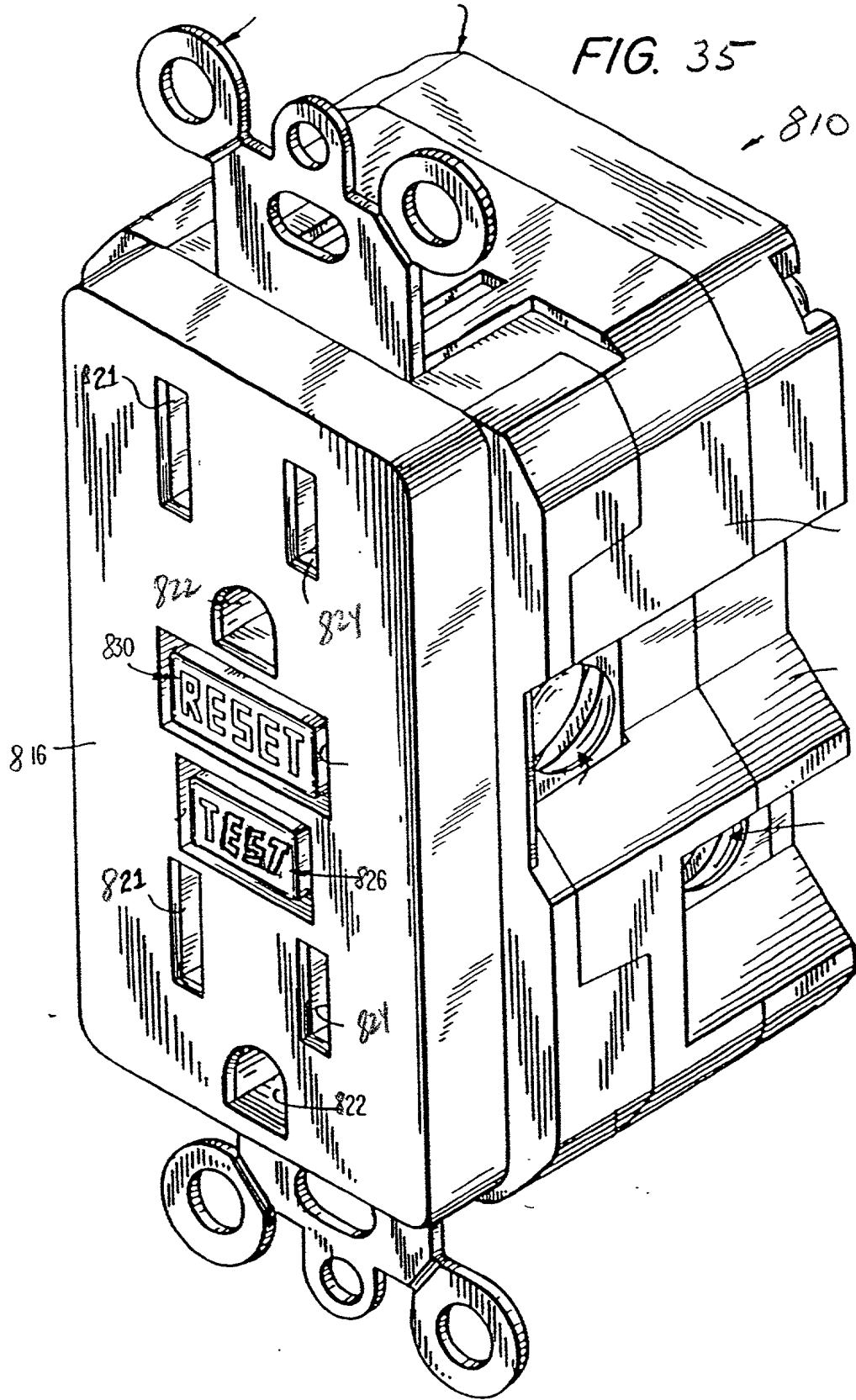


FIG. 34f

FIG. 35



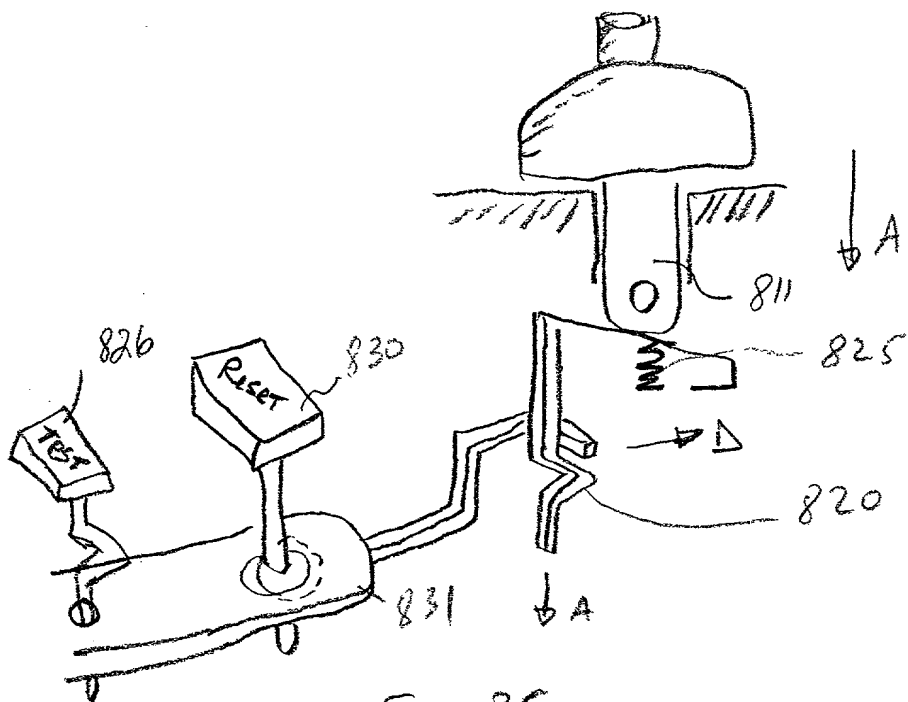


Fig 36a

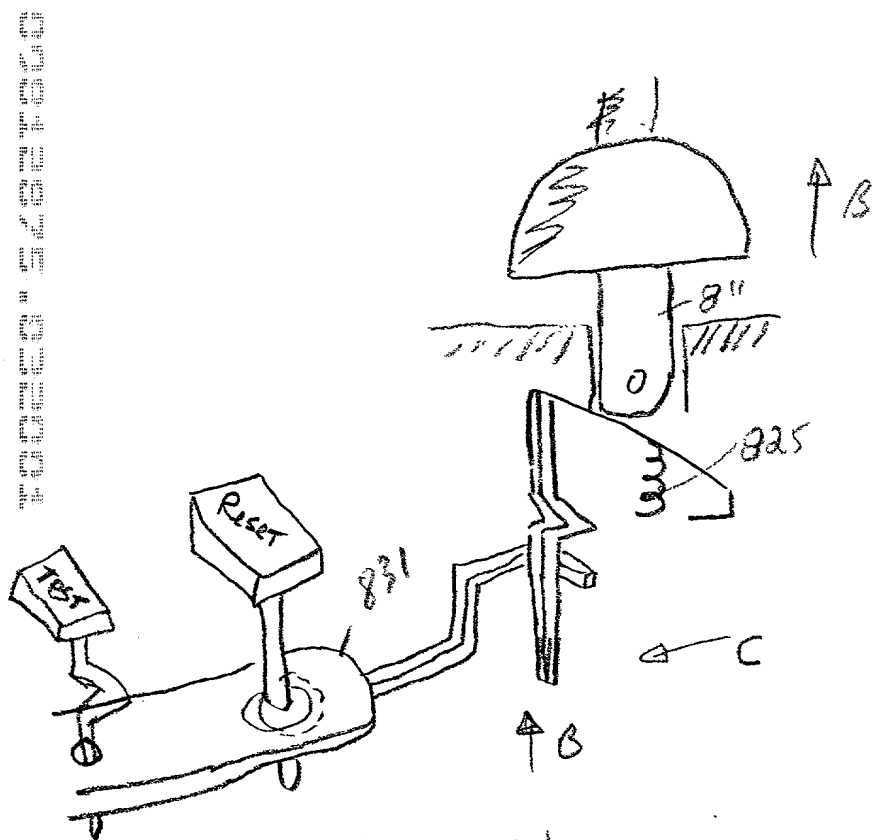


Fig. 36b

FIG. 37

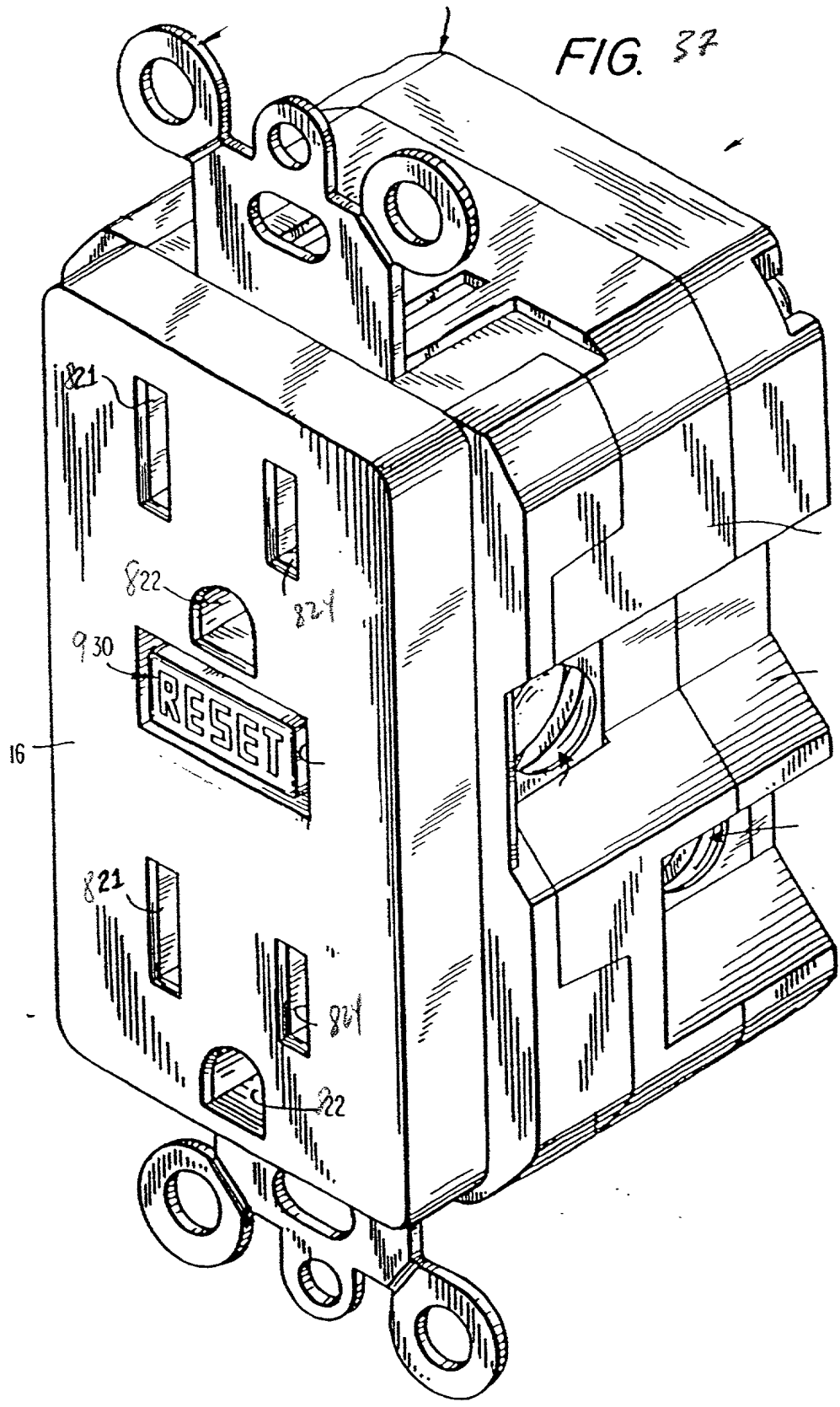


FIG. 37 is a perspective view of the device 16, showing the front panel with the RESET button and the various ports. The device is shown in a perspective view, highlighting its three-dimensional structure and the arrangement of its components.

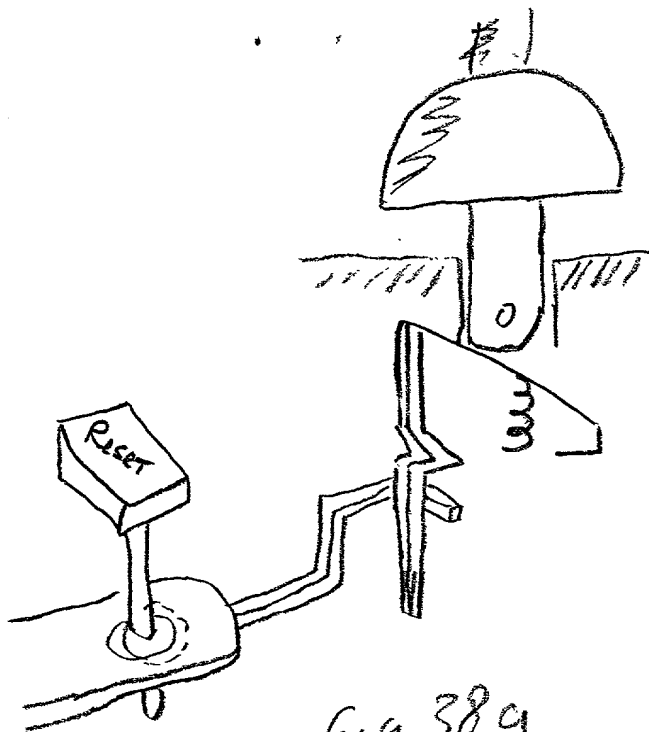


Fig 38a

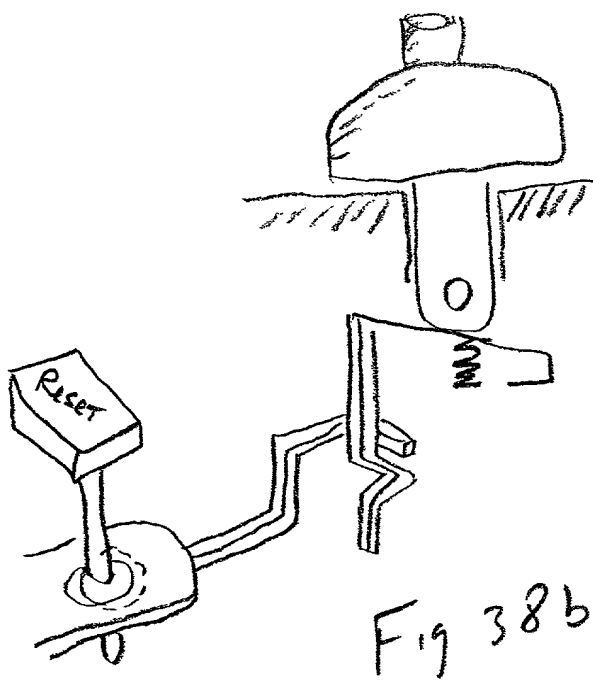
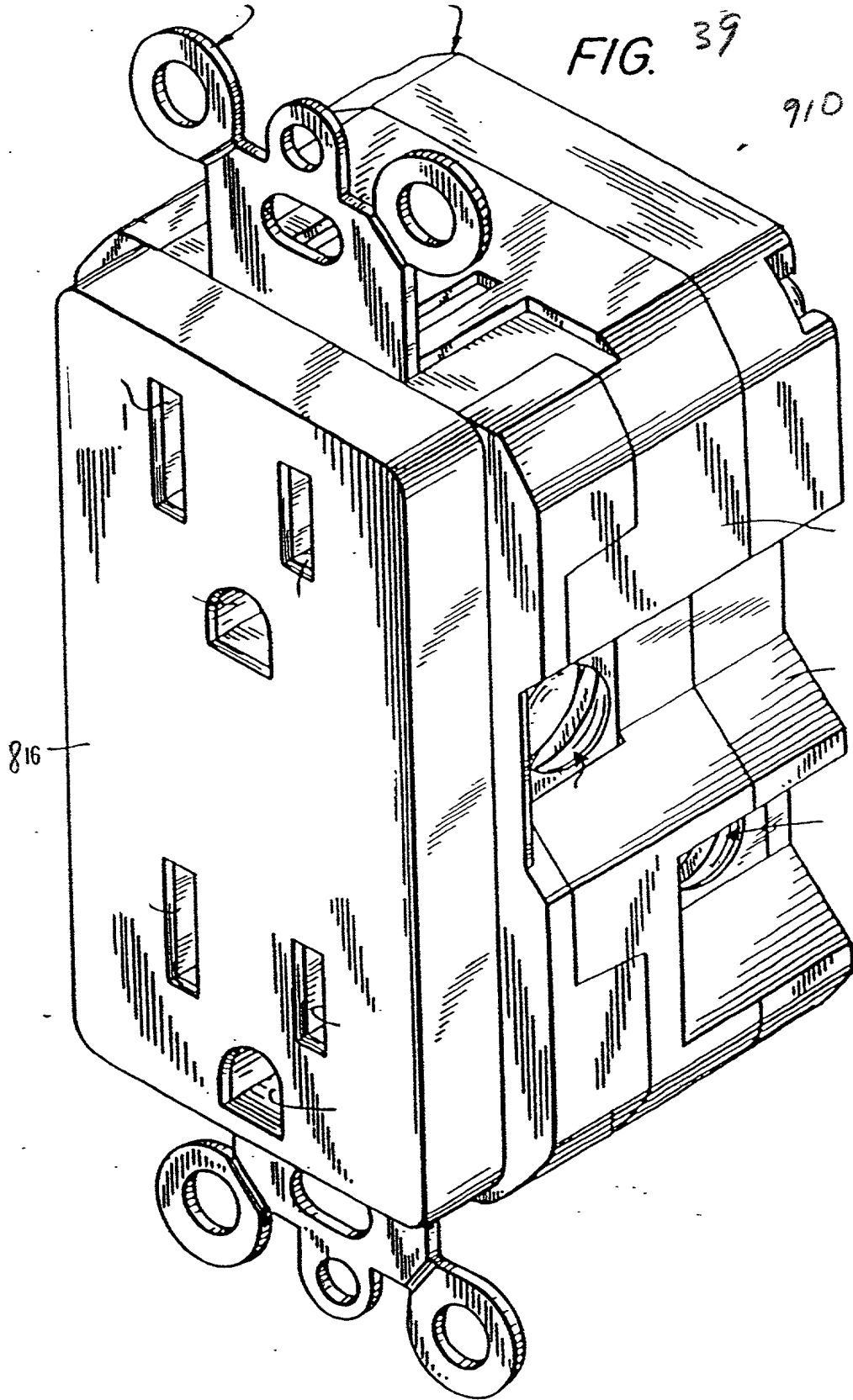


Fig 38b

FIG. 39

910



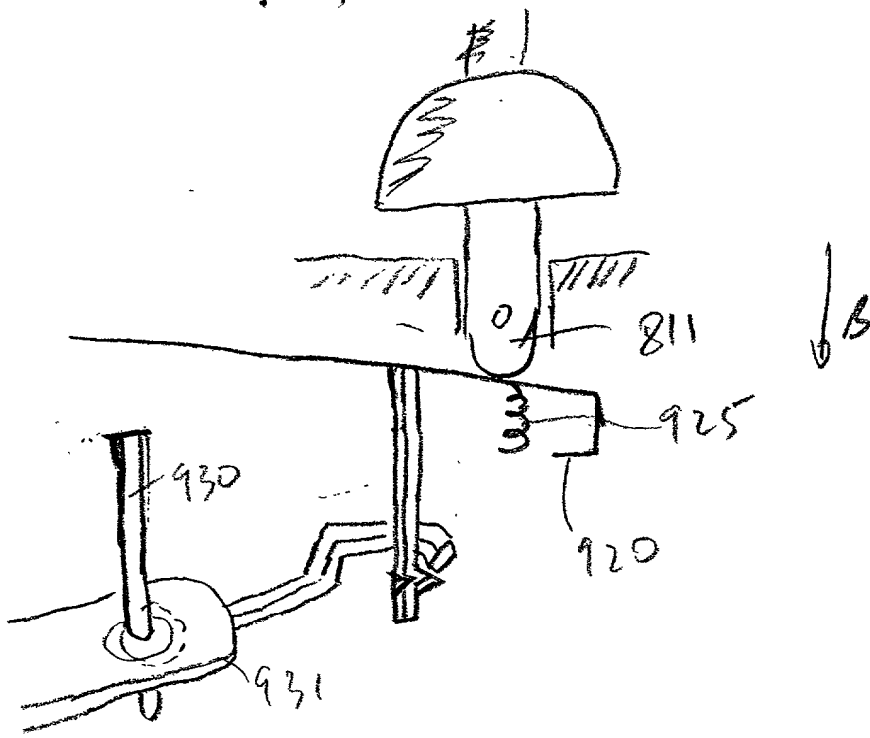


Fig. 40

FIG. 41

912

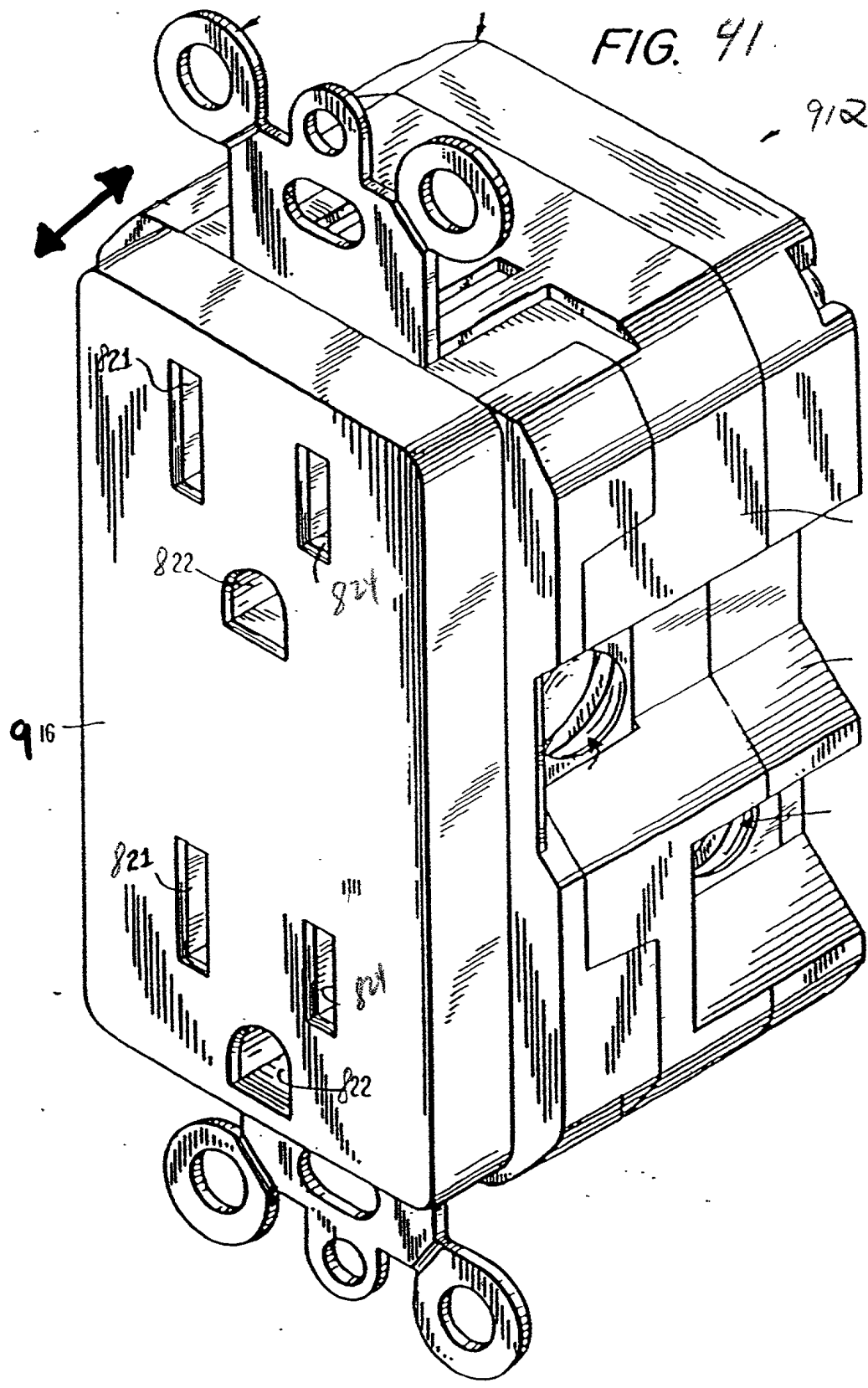


FIG. 41 is a perspective view of the assembly 912, showing the main body 916, the top bracket, and the various ports and openings.